Appendix 5

Permit to Construct Application



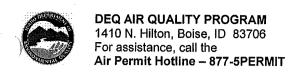
DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2 02/13/07

C	OMPAN	Y NAME, FACILITY NAME, AND FACILITY ID NUMBE	R
1. Compan	y Name	Renova Energy, Inc.	
2. Facility	Name	Heyburn Ethanol Plant 3. Facility ID No.	
4. Brief Pro	oject Descri nce or less	otion - Construction of new ethanol manufacturing plant.	
		PERMIT APPLICATION TYPE	
		New Source at Existing Facility Unpermitted Existing So	ource
		Source: Permit No.: Date Issued:	
∐ Req	uired by Enf	forcement Action: Case No.:	
6. Mino	or PTC	Major PTC	
		FORMS INCLUDED	
Included	N/A	Forms	DEQ Verify
\boxtimes		Form GI – Facility Information	
\boxtimes		Form EU0 – Emissions Units General	
\boxtimes		Form EU1 - Industrial Engine Information Please Specify number of forms attached:	
	\boxtimes	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:	
	\boxtimes	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:	
\boxtimes		Form EU4 - Cooling Tower Information Please Specify number of forms attached:	
\boxtimes		Form EU5 – Boiler Information Please Specify number of forms attached:	
	\boxtimes	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:	
	\boxtimes	Form CBP - Concrete Batch Plant Please Specify number of forms attached:	
\boxtimes		Form BCE - Baghouses Control Equipment	
	\boxtimes	Form SCE - Scrubbers Control Equipment	
\boxtimes		Forms EI-CP1 - EI-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)	
×		PP – Plot Plan	
\boxtimes		Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	
\boxtimes		Form FRA – Federal Regulation Applicability	

DEQ USE ONLY
Date Received
RECEIVED
FEB 2 8 2007
The state of the s
DEPARTMENT OF ENVIRONMENTAL QUALITY STATE A O PROGRAM
Project Number
Payment / Fees Included?
Yes No No No No
Check Number
_
2433



Revision 1 01/11/07

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

	IDENTIFICATION
1. Company Name	Renova Energy Idaho LLC
2. Facility Name (if different than #1)	Heyburn Ethanol Plant
3. Facility I.D. No.	Formerly: 067-00017
4. Brief Project Description:	Construction of new ethanol manufacturing plant
	FACILITY INFORMATION
5. Owned/operated by: (√ if applicable)	Federal government County government State government City government
Primary Facility Permit Contact Person/Title	James Glancey, Senior Vice President
7. Telephone Number and Email Address	208-336-3299 / jim.glancey@renovaenergy.com
8. Alternate Facility Contact Person/Title	
9. Telephone Number and Email Address	
10. Address to which permit should be sent	913 South Latah
1. City/State/Zip	Bolse, ID 83705
12. Equipment Location Address (if different than #9)	Within the City Limits of Heyburn, east side of Highway 30, north side of 9 th Street
13. City/State/Zip	Heyburn, Idaho
14. Is the Equipment Portable?	Yes No
15. SIC Code(s) and NAISC Code	Primary SIC: 2869 Secondary SIC (if any): NAICS: 325193
16. Brief Business Description and Principal Product	Ethanol manufacturing from corn.
17. Identify any adjacent or contiguous facility that this company owns and/or operates	None
	PERMIT APPLICATION TYPE
18. Specify Reason for Application	New Facility
	CERTIFICATION
IN ACCORDANCE WITH IDAPA 58.01.01.123 (F AFTER REASONABLE INQUIRY	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED , THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.
19. Responsible Official's Name/Title	James Glancey, Senior Vice President
20. RESPONSIBLE OFFICIAL SIGNATU	URE James Glancery Date: 2-19-07
21. Check here to indicate you would	d like to review draft permit prior to final issuance.

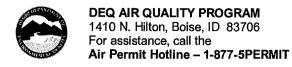


DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2 02/14/07

, 3			IDENTIFICAT	LION		
Company Name:		Facility		ION	Faci	lity ID No:
Renova Energy, Inc.		_	n Ethanol Plar	nt	1 aci	ity iD 140.
Brief Project Description:				thanol manufa	ecturing plant	
	IONS II		44	IFICATION &		
Emissions Unit (EU) Name:		RECEIVING #	<u></u>	IFICATION	DESCRIPTI	ON
2. EU ID Number:	ES-1	COLIVII O #	· I			
3. EU Type:	⊠ New		Unpermitted E:	xisting Source Previous Permi	t#: Da	ate Issued:
4. Manufacturer:	CUSTO	M - DESIGNE	D			
5. Model:	CUSTO	/ - DESIGNE	D			
6. Maximum Capacity:	237,965	TONS/YR				And the second s
7. Date of Construction:	2007-20	08			······································	
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	□ No	⊠ Yes If Ye	s, Complete the	following section.	If No, go to line	18.
		EMISSION	IS CONTROL	EQUIPMEN		
10. Control Equipment Name and ID:		Baghouse / C	:-1			
11. Date of Installation:		2007-2008	12. Date of Mod	dification (if any):		
13. Manufacturer and Model Number:		TBD: EQUIPI	MENT TO MEET	PTC APPLICATI	ON ASSUMPTIO	ONS
14. ID(s) of Emission Unit Controlled:		ES-1				
15. Is operating schedule different than emunits(s) involved?:16. Does the manufacturer guarantee the companies.		☐ Yes	⊠ No			
efficiency of the control equipment?	ontroi	□Yes □No	(If yes, attach	and label manufa	cturer guarantee	:)
			ı	Pollutant Contr	olled	
F	M	PM10	SO ₂	NOx	VOC	CO
Control Efficiency 99.	99%					
17. If manufacturer's data is not available, a		parate sheet	of paper to provi	de the control eq	uipment design s	specifications and performance data
to support the above mentioned control effi-						
			SCHEDULE	(hours/day, h	iours/year, d	r other)
	760 HOU					
19. Maximum Operation 8,	760 HOU		Ti			
			EQUESTED L	IMITS		
20. Are you requesting any permit limits?		es 🖾 t	No (If Yes, ched	k all that apply be	elow)	*
Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Pleas	e attach all re	elevant stack test	ing summary rep	orts	
Other:						
21. Rationale for Requesting the Limit(s):						



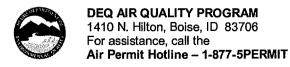
Revision 2 02/14/07

			IDENTIFICA [*]	ΓΙΟΝ		
Company Name:		Facility			Facili	ity ID No:
Renova Energy, Inc.		1	n Ethanol Plar	nt		Ny 15 Mei
Brief Project Description:		<u> </u>		thanol manufa	acturing plant.	
	IONS U				DESCRIPTION	DN .
1. Emissions Unit (EU) Name:		RECEIVING #	······································			
2. EU ID Number:	ES-2					
3. EU Type:	⊠ New :		Unpermitted E ermitted Source	xisting Source Previous Perm	it#: Dat	re Issued:
4. Manufacturer:	CUSTON	/ - DESIGNE	D			
5. Model:	CUSTON	1 - DESIGNE	D			
6. Maximum Capacity:	237,965	TONS/YR				
7. Date of Construction:	2007-200)8				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	□ No	⊠ Yes If Ye	s, Complete the	following section.	If No, go to line 1	18.
		EMISSION	IS CONTROL	EQUIPMEN	Γ	
10. Control Equipment Name and ID:		Baghouse / C	-2			
11. Date of Installation:	:	2007-2008	12. Date of Mod	dification (if any):		
13. Manufacturer and Model Number:		TBD: EQUIPI	MENT TO MEET	PTC APPLICATI	ON ASSUMPTIO	NS
14. ID(s) of Emission Unit Controlled:		ES-2				
15. Is operating schedule different than emunits(s) involved?:		☐ Yes	⊠ No			
16. Does the manufacturer guarantee the c efficiency of the control equipment?	ontrol	□Yes □No	(If yes, attach	and label manufa	cturer guarantee)	
				Pollutant Cont	olled	
F	M'	PM10	SO ₂	NOx	VOC	со
Control Efficiency 99.	99%					
17. If manufacturer's data is not available, a		parate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data
to support the above mentioned control effic						
EMISSION L	INIT OP	ERATING	SCHEDULE	(hours/day, l	nours/year, o	r other)
	760 HOUF					
19. Maximum Operation 8,	760 HOUF					
		RE	QUESTED L	IMITS		
20. Are you requesting any permit limits?	□ Y	es 🖾 N	No (If Yes, ched	k all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Pleas	e attach all re	elevant stack test	ing summary rep	orts	
☐ Other:						
21. Rationale for Requesting the Limit(s):						



Revision 2 02/14/07

- Todo oo madaana an paga		g out th			* *	
			IDENTIFICAT	TON		
Company Name:		Facility	Name:		Facil	ity ID No:
Renova Energy, Inc.		Heyburr	n Ethanol Plar	nt		
Brief Project Description:		Constru	ction of new e	thanol manufa	acturing plant.	
EMI	SSIONS (JNIT (PRO	CESS) IDENT	IFICATION &	DESCRIPTION	ON
Emissions Unit (EU) Name:	GRAIN	MILLING AND	CLEANING			
2. EU ID Number:	ES-3					
3. EU Type:		Source [ification to a P	Unpermitted E:	kisting Source Previous Permi	t#: Da	te Issued:
4. Manufacturer:	CUSTO	M - DESIGNE	D			
5. Model:	CUSTO	M - DESIGNE	D			
6. Maximum Capacity:	237,965	TONS/YR				
7. Date of Construction:	2007-20	008				
8. Date of Modification (if any)			4/			
9. Is this a Controlled Emission Unit?	□No			_	If No, go to line	18.
		EMISSION	IS CONTROL	EQUIPMEN	Τ	
10. Control Equipment Name and ID:		Baghouse / C	-3			
11. Date of Installation:		2007-2008	12. Date of Mod	dification (if any):		***
13. Manufacturer and Model Number:		TBD: EQUIP	MENT TO MEET	PTC APPLICATI	ON ASSUMPTIC	NS
14. ID(s) of Emission Unit Controlled:		ES-3				
15. Is operating schedule different than units(s) involved?:		☐ Yes	⊠ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	ne control	□Yes □No	(If yes, attach	and label manufa	cturer guarantee)
				Pollutant Cont	rolled	
	PM	PM10	SO ₂	NOx	VOC	со
Control Efficiency	99.99%					
17. If manufacturer's data is not available to support the above mentioned control		separate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data
EMISSIO	N UNIT O	PERATING	SCHEDULE	(hours/day, l	nours/year, o	r other)
18. Actual Operation	8,760 HOU			•		
19. Maximum Operation	8,760 HOL	JRS/YEAR				
		RE	QUESTED L	.IMITS		
20. Are you requesting any permit limit	its?	Yes 🔯 l	No (If Yes, che	k all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Plea	se attach all re	elevant stack test	ing summary rep	orts	
☐ Other:						
21. Rationale for Requesting the Limit	t(s):					



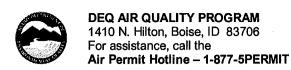
Revision 2 02/14/07

			DENTIFICAT	ION		. ::
Company Name:		Facility I	Vame:		Facil	ity ID No:
Renova Energy, Inc.		Heyburr	Ethanol Plar	ıt		
Brief Project Description:		Constru	ction of new e	thanol manufa	acturing plant.	
EMISSI	ONS UN	IT (PROC	CESS) IDENT	IFICATION &	DESCRIPTION	ON
1. Emissions Unit (EU) Name:	BOILER					
2. EU ID Number:	ES-4					
3. EU Type:	⊠ New Se	ource C	Unpermitted Exermitted Source	kisting Source Previous Permi	t#: Da	te Issued:
4. Manufacturer:	SUPERIO	R				
5. Model:	8-X-11000)-S200-WBC	F-G			
6. Maximum Capacity:	73.65 MM	BTU/HR				
7. Date of Construction:	2007-2008	3				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	⊠ No □	Yes If Ye	s, Complete the	following section.	If No, go to line	18.
		MISSION	IS CONTROL	. EQUIPMEN		
10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emis units(s) involved?:	ssion	Yes	□ No			
16. Does the manufacturer guarantee the coefficiency of the control equipment?	ontrol []Yes □No	(If yes, attach	and label manufa	cturer guarantee)
enciency of the control eduloment:				Pollutant Conti	rolled	
PI	и	PM10	SO₂	NOx	VOC	СО
Control Efficiency						
17. If manufacturer's data is not available, at	tach a sep	parate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data
to support the above mentioned control effic	iency.					
EMISSION U	NIT OPE	ERATING	SCHEDULE	(hours/day, l	nours/year, o	r other)
18. Actual Operation 8,7	'60 HOUR	S/YEAR				
19. Maximum Operation 8,7	'60 HOUR	S/YEAR				
		RE	QUESTED L	IMITS		
20. Are you requesting any permit limits?	⊠ Ye	s 🗆 l	No (If Yes, ched	k all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Please	attach all re	elevant stack test	ing summary rep	orts	
☑ Other:	MAX A	ANNUAL BIC	GAS FUEL USA	GE =980,344,91	2 SCF/YR	
21. Rationale for Requesting the Limit(s):	PREVI	ENT EXCEE	DANCE OF MA	IOR SOURCE TH	HRESHOLD FOR	.co



Revision 2 02/14/07

. •		ı	DENTIFICAT	ION		
Company Name:		Facility N	Name:		Facili	ty ID No:
Renova Energy, Inc.		Heyburn	Ethanol Plan	t		
Brief Project Description:		Construc	ction of new e	thanol manufa	acturing plant.	
	IONS UI				DESCRIPTIO	N
Emissions Unit (EU) Name:			OR ENGINE #1			
2. EU ID Number:	ES-5	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		WEAR COLUMN PORT	
3. EU Type:	⊠ New S □ Modifi	Source C	Unpermitted Exermitted Source -	isting Source - Previous Permi	t#: Dat	e Issued:
4. Manufacturer:	CAT					
5. Model:	G3520C					
6. Maximum Capacity:	14.11 MN	/BTU/HR				
7. Date of Construction:	2007-200)8				Appendix and the state of the s
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	⊠ No I	☐ Yes If Ye	s, Complete the t	following section.	If No, go to line 1	8.
		EMISSION	IS CONTROL	. EQUIPMEN		
10. Control Equipment Name and ID:					·	
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:				<u></u>		· · · · · · · · · · · · · · · · · · ·
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emulation involved?:	ission	Yes	□ No			
16. Does the manufacturer guarantee the c efficiency of the control equipment?	ontrol	∐Yes ∐No	(If yes, attach	and label manufa	cturer guarantee)
emciency of the control edublinent:				Pollutant Conti	rolled	
F	PM	PM10	SO ₂	NOx	VOC	со
Control Efficiency						
17. If manufacturer's data is not available, a	attach a se	parate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data
to support the above mentioned control effi	ciency.				***	
EMISSION L	JNIT OP	ERATING	SCHEDULE	(hours/day, l	nours/year, o	r other)
18. Actual Operation 8	760 HOU	RS/YEAR				
19. Maximum Operation 8	,760 HOUI	RS/YEAR				
		RE	QUESTED L	IMITS.		
20. Are you requesting any permit limits?	⊠Y	es 🗆 t	No (If Yes, ched	ck all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Pleas	e attach all re	elevant stack test	ing summary rep	orts	
☑ Other:	MAX	FUEL USAG	E (2 GENERATO	ORS) = 375.7 MM	SCF/YR	
21. Rationale for Requesting the Limit(s):	PRE	VENT EXCEE	DANCE OF MA	IOR SOURCE TI	HRESHOLD FOR	CO



Revision 2 02/14/07

I and the second of the page		g	IDENTIFICAT	ION		
Company Name:		Facility I		ion.	Facil	ity ID No:
Renova Energy, Inc.		1 -	n Ethanol Plan	t	1 40.11	
Brief Project Description:		+			acturing plant.	
	SIONS II				DESCRIPTION) N
				IFICATION	DESCRIPTION	JN .
1. Emissions Unit (EU) Name:	 	IC GENERAL	FOR ENGINE #2			
2. EU ID Number:	ES-6					
3. EU Type:	⊠ New S ☐ Modif	ication to a Po	Unpermitted Exermitted Exermitted Source	disting Source Previous Perm	it#: Da	te Issued:
4. Manufacturer:	CAT					
5. Model:	G3520C					
6. Maximum Capacity:	14.11 MM	MBTU/HR				
7. Date of Construction:	2007-200	08				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, Complete the	following section	. If No, go to line	18.
		EMISSION	IS CONTROL	. EQUIPMEN	T	
10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than en units(s) involved?:		□ Yes	□ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	control	□Yes □No	(If yes, attach	and label manufa	acturer guarantee)
				Pollutant Cont	rolled	
	РМ	PM10	SO ₂	NOx	voc	СО
Control Efficiency						
17. If manufacturer's data is not available,		eparate sheet	of paper to provi	de the control eq	luipment design s	pecifications and performance data
to support the above mentioned control ef						
			SCHEDULE	(hours/day,	hours/year, o	r other)
18. Actual Operation	3,760 HOU	RS/YEAR				
19. Maximum Operation	3,760 HOU					
		RE	QUESTED L	IMITS		
20. Are you requesting any permit limits	? 🛛 Y	′es □ l	No (If Yes, ched	ck all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Pleas	se attach all re	elevant stack test	ing summary rep	orts	
☑ Other:	MAX	FUEL USAG	E (2 GENERATO	ORS) = 375.7 MM	1 SCF/YR	
21. Rationale for Requesting the Limit(s): PRE	VENT EXCEE	DANCE OF MA	OR SOURCE T	HRESHOLD FOR	CO



Revision 2 02/14/07

r react cot men denote on page 2.		g cut u.		:ON		
			DENTIFICAT	ION	T	
Company Name:		Facility I	Name:		Facilit	y ID No:
Renova Energy, Inc.		Heyburr	Ethanol Plan	t		
Brief Project Description:		Constru	ction of new e	thanol manufa	acturing plant.	
EMISSI	ONS UN	IIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N
1. Emissions Unit (EU) Name:	LOADING	RACK				
2. EU ID Number:	ES-7					
3. EU Type:	☑ New So ☐ Modific	ource [ation to a Pe	Unpermitted Exermitted Exermitted Source	kisting Source Previous Permi	t#: Date	e Issued:
4. Manufacturer:	сиѕтом	- DESIGNEI	D			
5. Model:	сиѕтом	- DESIGNEI				
6. Maximum Capacity:	24 MMGA	L/YR				
7. Date of Construction:	2007-2008	3				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	□ No 🗵	Yes If Ye	s, Complete the	following section.	If No, go to line 1	8.
	E	MISSION	IS CONTROL	. EQUIPMEN	Γ	
10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emis units(s) involved?:	-] Yes	□ No			
16. Does the manufacturer guarantee the coefficiency of the control equipment?	ontrol]Yes □No	(If yes, attach	and label manufa	cturer guarantee)	
				Pollutant Conti	rolled	
P	м	PM10	SO ₂	NOx	VOC	со
Control Efficiency						
17. If manufacturer's data is not available, a to support the above mentioned control effic		parate sheet	of paper to provi	de the control eq	uipment design sp	pecifications and performance data
EMISSION U	NIT OPE	RATING	SCHEDULE	(hours/day, l	nours/year, or	other)
	760 HOUR					· '
19. Maximum Operation 8,7	760 HOUR	S/YEAR				
1		RE	QUESTED L	.IMITS		
20. Are you requesting any permit limits?	☐ Ye	s 🖾 N	No (If Yes, che	ck all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						***
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Please	attach all re	elevant stack test	ing summary rep	orts	
					·····	
☐ Other:						

DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 2 02/14/07

			DENTIFICAT	ION		
Company Name:		Facility N	Name:		Facilit	ty ID No:
Renova Energy, Inc.		Heyburn	Ethanol Plan	t		
Brief Project Description:		Construc	ction of new e	thanol manufa	acturing plant.	
	SIONS U	NIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N
Emissions Unit (EU) Name:		BIC DIGEST				
2. EU ID Number:	ES-8					
3. EU Type:	⊠ New : ☐ Modif	Source Cication to a Pe	Unpermitted Exermitted Source -	disting Source Previous Permi	t#: Date	e Issued:
4. Manufacturer:	CUSTO	/ - DESIGNEI	D			
5. Model:	CUSTON	/ - DESIGNEI	D			
6. Maximum Capacity:	293,000	GAL/DAY				
7. Date of Construction:	2007-20	08				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	□No				. If No, go to line 1	8.
		EMISSION	IS CONTROL	. EQUIPMEN	Т	
10. Control Equipment Name and ID:		"Iron Sponge"	H2S Scrubber /	C-4		
11. Date of Installation:		2007-2008	12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:		CUSTOM - D	ESIGNED			
14. ID(s) of Emission Unit Controlled:		ES-8				· ····································
15. Is operating schedule different than units(s) involved?:		☐ Yes	⊠ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	e control	□Yes □No	(If yes, attach	and label manufa	acturer guarantee)	
			,	Pollutant Cont	rolled	
	РМ	PM10	SO ₂	NOx	VOC	СО
Control Efficiency						
17. If manufacturer's data is not availabl to support the above mentioned control		eparate sheet	of paper to provi	de the control ed	uipment design s	pecifications and performance data
EMISSION	N UNIT OF	PERATING	SCHEDULE	(hours/day,	hours/year, o	r other)
18. Actual Operation	8,760 HOU	RS/YEAR				
19. Maximum Operation	8,760 HOU	RS/YEAR				
		RE	EQUESTED L	IMITS		
20. Are you requesting any permit limit	ts? 🔯 \	′es □¹	No (If Yes, che	ck all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Plea	se attach all re	elevant stack tes	ting summary rep	orts	
☑ Other:	MAX	BIOGAS PRO	ODUCTION = 1,	356 MMSCF/YR		
21. Rationale for Requesting the Limit	(s): PRE	VENT EXCEE	DANCE OF MA	JOR SOURCE T	HRESHOLD FOR	СО



Revision 2 02/14/07

Company Name: Renova Energy, Inc. Brief Project Description: Construction of new ethanol manufacturing plant. EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION 1. Emissions Unit (EU) Name: ANAEROBIC DIGESTER TANK 2 2. EU ID Number: ES-9 3. EU Type: Mew Source Unpermitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued: 4. Manufacturer: CUSTOM - DESIGNED 5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? We No Source Unpermitted Existing Source Date Issued: EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9 15. Is operating schedule different than emission
Renova Energy, Inc. Brief Project Description: Construction of new ethanol manufacturing plant. EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION 1. Emissions Unit (EU) Name: ANAEROBIC DIGESTER TANK 2 2. EU ID Number: ES-9 3. EU Type: Medication to a Permitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued: CUSTOM - DESIGNED CUSTOM - DESIGNED 6. Maximum Capacity: 293,000 GAL/DAY 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
Brief Project Description: Construction of new ethanol manufacturing plant. EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION 1. Emissions Unit (EU) Name: ANAEROBIC DIGESTER TANK 2 2. EU ID Number: ES-9 3. EU Type: Modification to a Permitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued: CUSTOM - DESIGNED CUSTOM - DESIGNED CUSTOM - DESIGNED 6. Maximum Capacity: 293,000 GAL/DAY 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION 1. Emissions Unit (EU) Name: ANAEROBIC DIGESTER TANK 2 2. EU ID Number: ES-9 3. EU Type:
1. Emissions Unit (EU) Name: ANAEROBIC DIGESTER TANK 2 2. EU ID Number: ES-9 3. EU Type: ☐ New Source ☐ Unpermitted Existing Source ☐ Modification to a Permitted Source Previous Permit #: Date Issued: 4. Manufacturer: CUSTOM - DESIGNED 5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: 293,000 GAL/DAY 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? ☐ No ☐ Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
2. EU ID Number: ES-9
3. EU Type:
Manufacturer: CUSTOM - DESIGNED
5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: 293,000 GAL/DAY 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
6. Maximum Capacity: 293,000 GAL/DAY 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit?
7. Date of Construction: 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
10. Control Equipment Name and ID: ##ron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
10. Control Equipment Name and ID: "Iron Sponge" H2S Scrubber / C-4 11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
11. Date of Installation: 2007-2007 12. Date of Modification (if any): 13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
13. Manufacturer and Model Number: Customed designed 14. ID(s) of Emission Unit Controlled: ES-9
14. ID(s) of Emission Unit Controlled: ES-9
45 to expecting pelodula different then emission
15. Is operating schedule different than emission
units(s) involved?:
16. Does the manufacturer guarantee the control efficiency of the control equipment?
Pollutant Controlled
PM PM10 SO ₂ NOx VOC CO
Control Efficiency
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)
18. Actual Operation 8,760 HOURS/YEAR
19. Maximum Operation 8,760 HOURS/YEAR
REQUESTED LIMITS
20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):
☐ Operation Hour Limit(s): ☐ Production Limit(s):
☐ Production Limit(s):
☐ Production Limit(s): ☐ Material Usage Limit(s):



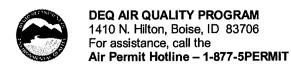
Revision 2 02/14/07

	,			Ū	IDENTIFICAT	ION			
Co	mpany Name:			Facility			Faci	lity ID No:	
1	nova Energy, Inc.			1	n Ethanol Plar	nt	1 46	ity 15 140.	
	of Project Description:			Construction of new ethanol manufacturing plant.					
		MOISSIDN	SIIN	S UNIT (PROCESS) IDENTIFICATION & DESCRIPTION					
1.	Emissions Unit (EU) Name:			COHOL PLA		II TOATTON C	. DEGUNII TI	JII	
	EU ID Number:	FS-		JOHOL I EA					
	EU Type:	— ⊠ ı	Vew So	ource [Unpermitted Exermitted Exermitted Source	kisting Source Previous Perm	it #: Da	te Issued:	
4.	Manufacturer:	CU	ISTOM - DESIGNED						
5.	Model:	CU	STOM	- DESIGNE	D				
6.	Maximum Capacity:	24 N	MM GA	L/DAY		· · · · · · · · · · · · · · · · · · ·			
7.	Date of Construction:	200	7-2008	3				, <u>, , , , , , , , , , , , , , , , , , </u>	
8.	Date of Modification (if any)				,			***************************************	
9.	Is this a Controlled Emission Unit	? 🛛	No [Yes If Ye	s, Complete the	following section	. If No, go to line	18.	
			=	MISSION	IS CONTROL	. EQUIPMEN	T		
10. 0	Control Equipment Name and ID:								
11. [Date of Installation:				12. Date of Mod	lification (if any):			
13. N	Manufacturer and Model Number:								
14.	14. ID(s) of Emission Unit Controlled:								
	s operating schedule different that (s) involved?:	n emissior	, <u> </u>] Yes	□ No				
16. E	Does the manufacturer guarantee ency of the control equipment?	the contro)' []Yes □No	(If yes, attach	and label manufa	acturer guarantee)	
GIIICI	ency of the control equipment?			Pollutant Controlled					
		PM		PM10	SO₂	NOx	voc	СО	
	Control Efficiency								
17. 1	f manufacturer's data is not availa	ıble, attach	n a sep	arate sheet	of paper to provi	de the control ed	Luipment design s	pecifications and performance data	
1	pport the above mentioned contro					· ·		'	
	EMISSIC	TINU NO	OPE	RATING	SCHEDULE	(hours/day, l	hours/year, c	r other)	
18.	Actual Operation	8,760	HOUR	S/YEAR					
19.	Maximum Operation	8,760	HOUR	S/YEAR			***	The first time and time and the first time and the	
				RE	QUESTED L	IMITS			
20.	Are you requesting any permit lin	mits?	☐ Yes	s 🖾 N	No (If Yes, ched	k all that apply b	elow)		
	☐ Operation Hour Limit(s):								
	☐ Production Limit(s):								
	☐ Material Usage Limit(s):				11-11-				
	☐ Limits Based on Stack Testin	g l	Please	attach all re	elevant stack test	ing summary rep	orts		
	Other:								
21.	Rationale for Requesting the Lim	nit(s):							



Revision 2 02/14/07

Please see instructions on pag	ge z belule	inning out th	io ioriii.					
			IDENTIFICAT	TION				
Company Name:		Facility I	Name:		Facilit	y ID No:		
Renova Energy, Inc.		Heyburn Ethanol Plant						
Brief Project Description:		Construction of new ethanol manufacturing plant.						
EN	IISSIONS L	INIT (PROC	CESS) IDENT	IFICATION 8	DESCRIPTIO	N		
Emissions Unit (EU) Name:	ETHAN	OL ABSORPT	ION COLUMN					
2. EU ID Number:	FS-2							
3. EU Type:	⊠ New □ Mod	Source [fication to a P	Unpermitted E ermitted Source	xisting Source Previous Perm	it#: Date	s Issued:		
4. Manufacturer:	CUSTO	M - DESIGNE	D					
5. Model:	CUSTOM - DESIGNED							
6. Maximum Capacity:	24 MM	GAL/YR						
7. Date of Construction:	2007-20	2007-2008						
8. Date of Modification (if any)								
9. Is this a Controlled Emission Unit	? ⊠ No				. If No, go to line 18	3.		
		EMISSION	IS CONTRO	L EQUIPMEN	T			
10. Control Equipment Name and ID:								
11. Date of Installation:			12. Date of Mo	dification (if any):				
13. Manufacturer and Model Number:								
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different tha units(s) involved?:	n emission	☐ Yes	□ No					
16. Does the manufacturer guarantee efficiency of the control equipment?	the control	□Yes □No	o (If yes, attach	and label manufa	acturer guarantee)			
efficiency of the control edulpment?		Pollutant Controlled						
	PM	PM10	SO ₂	NOx	voc	со		
Control Efficiency								
17. If manufacturer's data is not availa	able, attach a s	eparate sheet	of paper to prov	ride the control ed	uipment design sp	ecifications and performance data		
to support the above mentioned control	ol efficiency.							
EMISSI	O TINU NC	PERATING	SCHEDULE	(hours/day,	hours/year, or	other)		
18. Actual Operation	8,760 HO	JRS/YEAR						
19. Maximum Operation								
REQUESTED LIMITS								
20. Are you requesting any permit limits? ☐ Yes ☑ No (If Yes, check all that apply below)								
☐ Operation Hour Limit(s):								
☐ Production Limit(s):		- 112						
☐ Material Usage Limit(s):								
☐ Limits Based on Stack Testin	ng Plea	ase attach all r	elevant stack tes	sting summary rep	ports			
☐ Other:								
21. Rationale for Requesting the Lir	nit(s):				-			



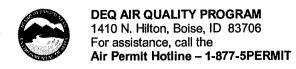
Revision 2 02/14/07

2. EU ID Number: FS-3 3. EU Type: ☐ New Source ☐ Unpermitted Existing Source ☐ Modification to a Permitted Source Previous Permit #: Date Issued: 4. Manufacturer: CUSTOM - DESIGNED 5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: 10,033,197 GAL/YR 7. Date of Construction: 2007-2008				DENTIFICAT	ION		: 1	
Brief Project Description: Construction of new ethanol manufacturing plant. EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION 1. Emissions Unit (EU) Name: SHIFT TANK (TK-801A) 2. EU ID Number: FS-3 3. EU Type: SNew Source Unpermitted Existing Source Modification to a Permitted Source — Previous Permit #: Date Issued: 4. Manufacturer: CUSTOM - DESIGNED 5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: 10,033,197 GALY/R 7. Date of Construction: 2007-2006 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Source SMISSIONS CONTROL EQUIPMENT 10. Control Equipment Name and ID: 11. Date of Installation: 12. Date of Modification (if any): 13. Manufacturer and Model Number: 14. D(c) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 15. To so the manufacturer guarantee the control equipment Manufacturer guarantee the control equipment of experiments of the control equipment of the control equipment of experiments of the control equipment of the control	Company Name:		Facility I	Name:		Facilit	y ID No:	
Emissions Unit (EU) Name: SHIFT TANK (TK-801A)	' '		Heyburr	Ethanol Plan	t			
1. Emissions Unit (EU) Name: SHIFT TANK (TK-801A) 2. EU ID Number: FS-3 3. EU Type:	Brief Project Description:		Construction of new ethanol manufacturing plant.					
2. EU ID Number: FS-3 3. EU Type:	EMISS	IONS UN	VIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N	
2. EU ID Number:	1. Emissions Unit (EU) Name:	SHIFT TA	NK (TK-801	A)				
Modification to a Permit#o Source Previous Permit #: Date Issued:		FS-3						
5. Model: CUSTOM - DESIGNED 6. Maximum Capacity: 10,033,197 GAL/YR 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit?	3. EU Type:					t#: Dat	e Issued:	
6. Maximum Capacity: 10,033,197 GAL/YR 7. Date of Construction: 2007-2008 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit?	4. Manufacturer:	сиѕтом	I - DESIGNEI	D				
7. Date of Construction: 8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? Semission Scontrolled Emission Unit Semission Scontrolled Emission Unit Semission Scontrolled Emission Unit Semission Scontrol Equipment Name and ID: 11. Date of Installation: 12. Date of Modification (if any): 13. Manufacturer and Model Number: 14. ID(s) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control equipment? 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. Pollutant Controlled (hours/day, hours/year, or other)	5. Model:	сиѕтом	- DESIGNEI	D				
8. Date of Modification (if any) 9. Is this a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18. EMISSIONS CONTROL EQUIPMENT	6. Maximum Capacity:	10,033,19	7 GAL/YR					
9. Is this a Controlled Emission Unit? Simple Yes Fyes, Complete the following section. If No, go to line 18.	7. Date of Construction:	2007-200	8					
### Indept	8. Date of Modification (if any)							
10. Control Equipment Name and ID: 11. Date of Installation: 12. Date of Modification (if any): 13. Manufacturer and Model Number: 14. ID(s) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? Yes	9. Is this a Controlled Emission Unit?	⊠ No [Yes If Ye	s, Complete the	following section.	If No, go to line 1	8.	
11. Date of Installation: 12. Date of Modification (if any): 13. Manufacturer and Model Number: 14. ID(s) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. 18. Actual Operation 19. Maximum Operation 10. Are you requesting any permit limits? 11. Date of Modification (if any): 12. Date of Modification (if any): 13. Nount Model Number: 14. ID(s) of Emission Unit Controlled 14. ID(s) of Emission Unit Controlled 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control label manufacturer guarantee) 18. Pollutant Controlled 19. Mox VOC 10. CO 10. CO 11. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. 19. Maximum Operation 19. Maximum Operation 10. Are you requesting any permit limits? 10. Are you requesting any permit limits? 10. Are you requesting any permit limits?			EMISSION	IS CONTROL	EQUIPMEN	T		
13. Manufacturer and Model Number: 14. ID(s) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? Pollutant Controlled PM PM10 SO ₂ NOx VOC CO Control Efficiency 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS O Are you requesting any permit limits? Yes No (If Yes, check all that apply below)	10. Control Equipment Name and ID:							
14. ID(s) of Emission Unit Controlled: 15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? Yes	11. Date of Installation:			12. Date of Mod	lification (if any):			
15. Is operating schedule different than emission units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? Yes	13. Manufacturer and Model Number:							
units(s) involved?: 16. Does the manufacturer guarantee the control efficiency of the control equipment? Pollutant Controlled PM PM10 SO₂ NOx VOC CO Control Efficiency 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits?	14. ID(s) of Emission Unit Controlled:							
Pollutant Control equipment? Pollutant Controlled PM PM10 SO ₂ NOx VOC CO Control Efficiency 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits?	units(s) involved?:		☐ Yes	□ No				
PM PM10 SO ₂ NOx VOC CO Control Efficiency 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR 20. Are you requesting any permit limits?		ontrol [⊒Yes □No	(If yes, attach	and label manufa	ecturer guarantee)		
Control Efficiency 17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits?			Pollutant Controlled					
17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)	F	PM	PM10	SO ₂	NOx	voc	со	
to support the above mentioned control efficiency. EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits?	Control Efficiency							
EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other) 18. Actual Operation	17. If manufacturer's data is not available, a	attach a se	parate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data	
18. Actual Operation 8,760 HOURS/YEAR 19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)	to support the above mentioned control effi	ciency.						
19. Maximum Operation 8,760 HOURS/YEAR REQUESTED LIMITS 20. Are you requesting any permit limits? ☐ Yes ☒ No (If Yes, check all that apply below)	EMISSION U	JNIT OP	ERATING	SCHEDULE	(hours/day, l	hours/year, o	other)	
REQUESTED LIMITS 20. Are you requesting any permit limits?	18. Actual Operation 8,	,760 HOUF	RS/YEAR					
20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)	19. Maximum Operation 8,	,760 HOUF	RS/YEAR					
			RE	QUESTED L	IMITS			
☐ Operation Hour Limit(s):	20. Are you requesting any permit limits?	□ Y€	es 🖾 N	No (If Yes, ched	k all that apply b	elow)		
	☐ Operation Hour Limit(s):							
☐ Production Limit(s):	☐ Production Limit(s):							
☐ Material Usage Limit(s):	☐ Material Usage Limit(s):							
☐ Limits Based on Stack Testing Please attach all relevant stack testing summary reports	☐ Limits Based on Stack Testing	Pleas	e attach all re	elevant stack test	ing summary rep	orts		
☐ Other:	☐ Other:				···			
21. Rationale for Requesting the Limit(s):	21. Rationale for Requesting the Limit(s):							



Revision 2 02/14/07

Please see instructions on page	e z beiore	ming out th	e ioni.						
			IDENTIFICAT	ION		NAME OF STREET			
Company Name:		Facility I	Name:		Facilit	y ID No:			
Renova Energy, Inc.		Heyburr	n Ethanol Plar	t					
Brief Project Description:		Construction of new ethanol manufacturing plant.							
EMI	SSIONS	JNIT (PROC	CESS) IDENT	IFICATION 8	& DESCRIPTIO	N .			
1. Emissions Unit (EU) Name:	SHIFT	TANK (TK-801	В)						
2. EU ID Number:	FS-4								
3. EU Type:			Unpermitted Exermitted Exermitted Source		nit#: Date	e Issued:			
4. Manufacturer:	CUSTO	CUSTOM - DESIGNED							
5. Model:	CUSTO	M - DESIGNE	D						
6. Maximum Capacity:	10,033	197 GAL/YR							
7. Date of Construction:	2007-2	008				A CONTRACTOR OF THE CONTRACTOR			
8. Date of Modification (if any)		· ·							
9. Is this a Controlled Emission Unit?	⊠ No				n. If No, go to line 1	8.			
		EMISSION	IS CONTROL	. EQUIPMEN	IT				
10. Control Equipment Name and ID:			•						
11. Date of Installation:			12. Date of Mod	dification (if any)	:				
13. Manufacturer and Model Number:									
14. ID(s) of Emission Unit Controlled:									
15. Is operating schedule different than units(s) involved?:	emission	☐ Yes	□ No						
16. Does the manufacturer guarantee t efficiency of the control equipment?	he control	□Yes □No	(If yes, attach	and label manuf	acturer guarantee)				
enciency of the control eduloment?		<u></u>	Pollutant Controlled						
	PM	PM10	SO ₂	NOx	voc	со			
Control Efficiency									
17. If manufacturer's data is not availab	ole, attach a	separate sheet	of paper to prov	de the control e	quipment design sp	pecifications and performance data			
to support the above mentioned control	l efficiency.								
EMISSIO	N UNIT O	PERATING	SCHEDULE	(hours/day,	hours/year, or	other)			
18. Actual Operation	8,760 HO	URS/YEAR							
19. Maximum Operation	8,760 HO	URS/YEAR							
		RE	EQUESTED L	.IMITS					
20. Are you requesting any permit lim	20. Are you requesting any permit limits? ☐ Yes ☐ No (If Yes, check all that apply below)								
☐ Operation Hour Limit(s):									
☐ Production Limit(s):		-							
☐ Material Usage Limit(s):									
☐ Limits Based on Stack Testing	Ple	ase attach all r	elevant stack tes	ting summary re	ports				
☐ Other:									
21. Rationale for Requesting the Lim	it(s):								



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			IDENTIFICAT	ION	* :			
Company Name:		Facility I	Name:		Facili	ty ID No:		
Renova Energy, Inc.		Heyburn Ethanol Plant						
Brief Project Description:	,	Construction of new ethanol manufacturing plant.						
EMIS	SIONS U	NIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N		
1. Emissions Unit (EU) Name:	OFF-SPE	EC PRODUC	T TANK (TK-803)				
2. EU ID Number:	FS-5							
3. EU Type:	⊠ New S □ Modif		Unpermitted Exermitted Exermitted Source	kisting Source Previous Permi	t#: Dat	e Issued:		
4. Manufacturer:	CUSTON	/ - DESIGNE	D					
5. Model:	CUSTON	CUSTOM - DESIGNED						
6. Maximum Capacity:	1,003,32	,003,320 GAL/YR						
7. Date of Construction:	2007-200	08						
8. Date of Modification (if any)		•						
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, Complete the	following section.	If No, go to line 1	8.		
EMISSIONS CONTROL EQUIPMENT								
10. Control Equipment Name and ID:								
11. Date of Installation:			12. Date of Mod	dification (if any):				
13. Manufacturer and Model Number:								
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different than e units(s) involved?:	mission	☐ Yes	□ No					
16. Does the manufacturer guarantee the efficiency of the control equipment?	control	□Yes □No	o (If yes, attach	and label manufa	cturer guarantee)			
efficiency of the control equipment?	L			Pollutant Contr	olled			
	PM	PM10	SO ₂	NOx	VOC	со		
Control Efficiency								
17. If manufacturer's data is not available	e, attach a se	eparate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data		
to support the above mentioned control e	fficiency.							
EMISSION	UNIT OF	PERATING	SCHEDULE	(hours/day, h	nours/year, o	r other)		
18. Actual Operation	8,760 HOU	RS/YEAR						
19. Maximum Operation	19. Maximum Operation 8,760 HOURS/YEAR							
		RE	EQUESTED L	IMITS.				
20. Are you requesting any permit limit	s? 🗆 Y	′es ⊠ l	No (If Yes, che	ck all that apply b	elow)			
Operation Hour Limit(s):								
☐ Production Limit(s):								
☐ Material Usage Limit(s):								
☐ Limits Based on Stack Testing	Pleas	se attach all r	elevant stack tes	ting summary rep	orts			
Other:								
21. Rationale for Requesting the Limit(s):							



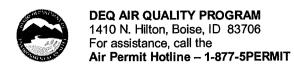
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riease see iristructions on page	6 2 Deloi 6	ming out a	o ioiii.					
			DENTIFICAT	ION				
Company Name:		Facility I	Name:		Facilit	y ID No:		
Renova Energy, Inc.		Heyburn Ethanol Plant						
Brief Project Description:		Construction of new ethanol manufacturing plant.						
EMI	SSIONS	JNIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N		
1. Emissions Unit (EU) Name:	DENAT	URANT TANK	(TK-808 A)					
2. EU ID Number:	FS-6							
3. EU Type:	 ☑ New Source ☐ Modification to a Permitted Source Previous Permit #: Date Issued: 							
4. Manufacturer:	CUSTO	M - DESIGNE	D					
5. Model:	CUSTO	M - DESIGNE	D					
6. Maximum Capacity:	1,209,4	78 GAL/YR (B	OTH DENATURA	ANT TANKS COM	MBINED)			
7. Date of Construction:	2007-2	008						
8. Date of Modification (if any)								
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, Complete the	following section.	. If No, go to line 1	8.		
		EMISSION	IS CONTROL	. EQUIPMEN	T			
10. Control Equipment Name and ID:								
11. Date of Installation:			12. Date of Mod	dification (if any):				
13. Manufacturer and Model Number:								
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different than units(s) involved?:		☐ Yes	□ No					
16. Does the manufacturer guarantee t efficiency of the control equipment?	he control	The three th						
		Pollutant Controlled						
	PM	PM10	SO ₂	NOx	VOC	СО		
Control Efficiency								
17. If manufacturer's data is not available to support the above mentioned control		separate sheet	of paper to provi	de the control eq	uipment design sp	pecifications and performance data		
EMISSIO	N UNIT O	PERATING	SCHEDULE	(hours/day,	hours/year, or	other)		
18. Actual Operation	8,760 HO	URS/YEAR						
19. Maximum Operation	8,760 HO	URS/YEAR						
	!	RI	QUESTED L	.IMITS				
20. Are you requesting any permit lim	nits?	Yes 🛛 I	No (If Yes, che	ck all that apply b	pelow)			
Operation Hour Limit(s):	☐ Operation Hour Limit(s):							
☐ Production Limit(s):								
☐ Material Usage Limit(s):	·			···				
☐ Limits Based on Stack Testing	Ple	ase attach all r	elevant stack tes	ting summary rep	orts			
☐ Other:								
21. Rationale for Requesting the Lim	it(s):							



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The state of the s		9	DENTIFICAT	ION			
Company Name:		Facility I			Facili	ty ID No:	
Renova Energy, Inc.		Heyburn Ethanol Plant					
		Construction of new ethanol manufacturing plant.					
Brief Project Description:							
				IFICATION 8	DESCRIPTIO	N	
Emissions Unit (EU) Name:		JRANT TANK	(TK-808 B)				
2. EU ID Number:	FS-7						
3. EU Type:	 ☑ New Source ☑ Unpermitted Existing Source ☑ Modification to a Permitted Source Previous Permit #: ☑ Date Issued: 						
4. Manufacturer:	CUSTON	M - DESIGNE	D				
5. Model:	CUSTO	M - DESIGNE	D				
6. Maximum Capacity:	1,209,47	8 GAL/YR (B	OTH DENATURA	ANT TANKS CO	MBINED)		
7. Date of Construction:	2007-200	08					
8. Date of Modification (if any)							
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, Complete the	following section.	If No, go to line 1	8.	
		EMISSION	IS CONTROL	. EQUIPMEN	Т		
10. Control Equipment Name and ID:							
11. Date of Installation:		,	12. Date of Mod	lification (if any):			
13. Manufacturer and Model Number:					-		
14. ID(s) of Emission Unit Controlled:							
15. Is operating schedule different than emisunits(s) involved?:		☐ Yes	□ No				
16. Does the manufacturer guarantee the coefficiency of the control equipment?	ontrol	□Yes □No	(If yes, attach	and label manufa	cturer guarantee)		
		Pollutant Controlled					
Р	M	PM10	SO₂	NOx	voc	со	
Control Efficiency							
17. If manufacturer's data is not available, a	ttach a se	eparate sheet	of paper to provi	de the control eq	uipment design sp	pecifications and performance data	
to support the above mentioned control effic	iency.						
EMISSION U	NIT OF	PERATING	SCHEDULE	(hours/day, l	nours/year, o	r other)	
18. Actual Operation 8,7	760 HOU	RS/YEAR					
19. Maximum Operation 8,7	760 HOU	RS/YEAR					
		RE	QUESTED L	IMITS			
20. Are you requesting any permit limits?	□ Y	′es ⊠ N	lo (If Yes, ched	k all that apply b	elow)		
☐ Operation Hour Limit(s):							
☐ Production Limit(s):							
☐ Material Usage Limit(s):							
☐ Limits Based on Stack Testing	Pleas	se attach all re	elevant stack test	ing summary rep	orts		
☐ Other:							
21. Rationale for Requesting the Limit(s):							



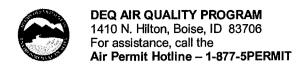
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			IDENTIFICAT	ION					
Company Name:		Facility I	Name:		Facil	ity ID No:			
Renova Energy, Inc.		Heyburn Ethanol Plant							
Brief Project Description:		Construction of new ethanol manufacturing plant.							
EMISS	IONS UN	NIT (PROC	CESS) IDENT	FICATION &	DESCRIPTION	ON			
1. Emissions Unit (EU) Name:			TANK (TK-810						
2. EU ID Number:	FS-8								
3. EU Type:	⊠ New S □ Modific	ource E	Unpermitted Exermitted Source -	isting Source - Previous Permit	#: Da	te Issued:			
4. Manufacturer:	сиѕтом	- DESIGNE	D						
5. Model:	сиѕтом	JSTOM - DESIGNED							
6. Maximum Capacity:	24 MM G/	24 MM GAL/YR (PRODUCT STORAGE TANK GROUP)							
7. Date of Construction:	2007-2008								
8. Date of Modification (if any)									
9. Is this a Controlled Emission Unit?	⊠ No [Yes If Ye	s, Complete the f	ollowing section.	f No, go to line	18.			
		EMISSION	IS CONTROL	EQUIPMENT					
10. Control Equipment Name and ID:	10. Control Equipment Name and ID:								
11. Date of Installation:			12. Date of Mod	ification (if any):					
13. Manufacturer and Model Number:									
14. ID(s) of Emission Unit Controlled:									
15. Is operating schedule different than em units(s) involved?:	ission [] Yes	□ No						
16. Does the manufacturer guarantee the coefficiency of the control equipment?	ontrol [_Yes □No	(If yes, attach a	and label manufac	turer guarantee)			
enciency of the control equipment?				Pollutant Contro	olled				
F	РМ	PM10	SO₂	NOx	VOC	со			
Control Efficiency									
17. If manufacturer's data is not available, a to support the above mentioned control effi		parate sheet	of paper to provi	de the control equ	ipment design s	specifications and performance data			
EMISSION U	JNIT OP	ERATING	SCHEDULE	(hours/day, h	ours/year, c	or other)			
	,760 HOUF					,			
19. Maximum Operation 8	,760 HOUF	RS/YEAR							
		RE	QUESTED L	IMITS					
20. Are you requesting any permit limits?	□ Ye	es 🛛 I	No (If Yes, chec	k all that apply be	low)				
Operation Hour Limit(s):									
☐ Production Limit(s):									
☐ Material Usage Limit(s):									
☐ Limits Based on Stack Testing	Pleas	e attach all re	elevant stack test	ing summary repo	orts				
☐ Other:									
21. Rationale for Requesting the Limit(s):									



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Ticase see instructions on page 2 before miling out the form.									
				IDENTIFICAT	TION				
Compan	y Name:		Facility	/ Name:		Facilit	ty ID No:		
Renova	Energy, Inc.		Heyburn Ethanol Plant						
Brief Pro	ect Description:		Construction of new ethanol manufacturing plant.						
	ΕN	MISSION	S UNIT (PRO	CESS) IDENT	IFICATION 8	L DESCRIPTION	N		
1. Emissi	ons Unit (EU) Name:	PRO	DUCT STORA	3E TANK (TK-810	B)				
2. EU ID	Number:	FS-9)						
3. ЕU Тур	pe:			☐ Unpermitted ExPermitted Source		nit#: Date	e Issued:		
4. Manufa	acturer:	cus	TOM - DESIGN	ED					
5. Model:		cus	TOM - DESIGN	ED					
6. Maxim	um Capacity:	24 N	1M GAL/YR (PR	ODUCT STORAG	E TANK GROUF	P)			
7. Date of	f Construction:	2007	7-2008						
8. Date of	f Modification (if any)								
9. Is this	a Controlled Emission Unit	t? ⊠ N	lo 🗌 Yes If	es, Complete the	following section	. If No, go to line 1	8.		
			EMISSIC	NS CONTROL	EQUIPMEN	ΙΤ			
10. Control	Equipment Name and ID:								
11. Date of	Installation:			12. Date of Mod	dification (if any):				
13. Manufa	cturer and Model Number:	:							
14. ID(s) of	Emission Unit Controlled:								
15. Is opera	ating schedule different that olved?:	an emissior	☐ Yes	□ No					
16. Does th	e manufacturer guarantee f the control equipment?	the contro	l □Yes □	No (If yes, attach	and label manuf	acturer guarantee)			
eniciency o	Title control equipment?		Pollutant Controlled						
		PM	PM10	SO ₂	NOx	voc	СО		
	Control Efficiency								
17. If manu	facturer's data is not availa	able, attach	a separate she	et of paper to prov	I ide the control ed	uipment design s	L control of the cont		
	he above mentioned contr						·		
	EMISSI	ON UNIT	OPERATIN	G SCHEDULE	(hours/day,	hours/year, o	r other)		
18. Actua	l Operation	8,760 H	OURS/YEAR						
19. Maxir	num Operation	8,760 H	HOURS/YEAR		·				
				REQUESTED L	IMITS				
	☐ Operation Hour Limit(s):								
☐ Pr	oduction Limit(s):								
□ ма	aterial Usage Limit(s):								
Lir	mits Based on Stack Testi	ng l	Please attach al	relevant stack tes	ting summary re	ports			
□ Ot	her:								
21. Ratio	nale for Requesting the Li	mit(s):							



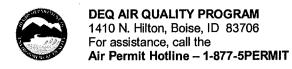
Revision 2 02/14/07

,			IDENTIFICA	TION				
Company Name:		Facility I			Facili	ity ID No:		
Renova Energy, Inc.		1	n Ethanol Plai	nt		,		
Brief Project Description:		Construction of new ethanol manufacturing plant.						
	MISSIONS				DESCRIPTION	DN		
Emissions Unit (EU) Name:			E TANK (TK-810					
2. EU ID Number:	FS-10	ALEXANDER OF THE PARTY OF THE P						
3. EU Type:		/ Source [lification to a P	Unpermitted E	xisting Source Previous Perm	it #: Dal	te Issued:		
4. Manufacturer:	CUSTO	M - DESIGNE	D .					
5. Model:	CUSTO	CUSTOM - DESIGNED						
6. Maximum Capacity:	24 MM	GAL/YR (PRO	DUCT STORAG	SE TANK GROUP	')			
7. Date of Construction:	2007-2	308						
8. Date of Modification (if any)								
9. Is this a Controlled Emission Un	nit? ⊠ No	☐ Yes If Ye	s, Complete the	following section	. If No, go to line 1	18.		
		EMISSION	IS CONTRO	L EQUIPMEN	Т			
10. Control Equipment Name and ID:								
11. Date of Installation:			12. Date of Mo	dification (if any):				
13. Manufacturer and Model Number	r:							
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different th units(s) involved?:	an emission	☐ Yes	☐ No					
16. Does the manufacturer guarante efficiency of the control equipment?	e the control	□Yes □No	o (If yes, attach	and label manufa	acturer guarantee))		
emolericy of the control continuents		<u></u>		Pollutant Conf	rolled			
	PM	PM10	SO ₂	NOx	voc	со		
Control Efficiency				:				
17. If manufacturer's data is not avait to support the above mentioned conf		separate sheet	of paper to prov	ride the control ed	uipment design s	pecifications and performance data		
EMISS	ION UNIT O	PERATING	SCHEDULE	(hours/day,	hours/year, o	r other)		
18. Actual Operation	8,760 HO	URS/YEAR						
19. Maximum Operation	8,760 HO	URS/YEAR						
		RI	EQUESTED I	LIMITS				
20. Are you requesting any permit								
☐ Operation Hour Limit(s):								
☐ Production Limit(s):								
☐ Material Usage Limit(s):								
☐ Limits Based on Stack Test	ing Ple	ase attach all r	elevant stack tes	sting summary rep	oorts			
☐ Other:								
21. Rationale for Requesting the L	imit(s):							



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Flease see instructions on page 2 before miling out the form.									
			DENTIFICAT	ION					
Company Name:		Facility N	Name:		Facili	ty ID No:			
Renova Energy, Inc.		Heyburn Ethanol Plant							
Brief Project Description:		Construction of new ethanol manufacturing plant.							
EMI	SSIONS (S UNIT (PROCESS) IDENTIFICATION & DESCRIPTION							
1. Emissions Unit (EU) Name:	PRODU	ICT STORAGE	TANK (TK-810	D)					
2. EU ID Number:	FS-11								
3. EU Type:	ype: New Source Unpermitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued:								
4. Manufacturer:	CUSTO	M - DESIGNEI	D						
5. Model:	CUSTO	M - DESIGNEI	D						
6. Maximum Capacity:	24 MM	GAL/YR (PRO	DUCT STORAG	E TANK GROUF	")				
7. Date of Construction:	2007-20	800							
8. Date of Modification (if any)									
9. Is this a Controlled Emission Unit?	⊠ No				. If No, go to line 1	8.			
		EMISSION	IS CONTROL	EQUIPMEN	IT				
10. Control Equipment Name and ID:									
11. Date of Installation:			12. Date of Mod	lification (if any):					
13. Manufacturer and Model Number:									
14. ID(s) of Emission Unit Controlled:									
15. Is operating schedule different than units(s) involved?:		☐ Yes	□ No						
16. Does the manufacturer guarantee the efficiency of the control equipment?	ne control	1 165 1140 (II yos, attach and tabel mandadator guarantos)							
		Pollutant Controlled				1			
	PM	PM10	SO ₂	NOx	voc	СО			
Control Efficiency									
17. If manufacturer's data is not availabte to support the above mentioned control		separate sheet	of paper to provi	de the control ed	quipment design s	pecifications and performance data			
EMISSIO	N UNIT O	PERATING	SCHEDULE	(hours/day,	hours/year, o	r other)			
18. Actual Operation	8,760 HO	URS/YEAR							
19. Maximum Operation	8,760 HO	URS/YEAR							
		RE	QUESTED L	IMITS					
20. Are you requesting any permit lim	its?	Yes 🔯 l	No (If Yes, che	ck all that apply l	below)				
Operation Hour Limit(s):									
☐ Production Limit(s):									
☐ Material Usage Limit(s):									
☐ Limits Based on Stack Testing	Ple	ase attach all re	elevant stack tes	ting summary re	ports				
Other:									
21. Rationale for Requesting the Limi	t(s):								



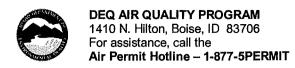
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			IDENTIFICAT	ION		Me 1 1 1	
Company Name:		Facility I	Name:		Faci	lity ID No:	
Renova Energy, Inc.		Heyburr	n Ethanol Plan	t			
Brief Project Description:		Construction of new ethanol manufacturing plant.					
EMISS	IONS UN	IIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTI	ON	
1. Emissions Unit (EU) Name:	PRODUC	T STORAGE	TANK (TK-810	E)			
2. EU ID Number:	FS-12						
3. EU Type:	☑ New S		Unpermitted Exermitted Source -		t#: Da	ate Issued:	
4. Manufacturer:	сиѕтом	- DESIGNE	D	,			
5. Model:	сиѕтом	- DESIGNE	D				
6. Maximum Capacity:	24 MM GA	AL/YR (PRO	DUCT STORAGE	E TANK GROUP)		
7. Date of Construction:	2007-2008	8					
8. Date of Modification (if any)							
9. Is this a Controlled Emission Unit?	⊠ No □] Yes If Ye	s, Complete the t	following section.	If No, go to line	18.	
	5	EMISSION	IS CONTROL	EQUIPMEN	Γ		
10. Control Equipment Name and ID:							
11. Date of Installation:			12. Date of Mod	lification (if any):			
13. Manufacturer and Model Number:							
14. ID(s) of Emission Unit Controlled:							
15. Is operating schedule different than em units(s) involved?:	-	Yes	□ No				
16. Does the manufacturer guarantee the coefficiency of the control equipment?	control []Yes □No	(If yes, attach	and label manufa	cturer guarante	e)	
				Pollutant Conti	olled		
F	РМ	PM10	SO ₂	NOx	VOC	со	
Control Efficiency							
17. If manufacturer's data is not available, a to support the above mentioned control effi	•	parate sheet	of paper to provi	de the control eq	uipment design	specifications and performance data	
EMISSION (JNIT OP	ERATING	SCHEDULE	(hours/day, l	nours/year, o	or other)	
	,760 HOUR				· · · · · · · · · · · · · · · · · · ·		
19. Maximum Operation 8	,760 HOUR	S/YEAR	,,				
-		RE	QUESTED L	IMITS			
20. Are you requesting any permit limits?	☐ Ye	es 🛛 l	No (If Yes, chec	k all that apply b	elow)		
Operation Hour Limit(s):							
☐ Production Limit(s):							
☐ Material Usage Limit(s):							
☐ Limits Based on Stack Testing	Please	e attach all re	elevant stack test	ing summary rep	orts		
☐ Other:							
21. Rationale for Requesting the Limit(s):	: [



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			DENTIFICAT	ION	· · ·	
Company Name:		Facility 1	Name:		Facilit	ty ID No:
Renova Energy, Inc.		Heyburn	Ethanol Plan	t		
Brief Project Description:		Constru	ction of new e	thanol manufa	cturing plant.	
EMISS	SIONS U	NIT (PROC	CESS) IDENT	IFICATION &	DESCRIPTIO	N
1. Emissions Unit (EU) Name:	PRODU	CT STORAGE	TANK (TK-810	F)		
2. EU ID Number:	FS-13					
3. EU Type:	⊠ New : □ Modif	Source Cication to a Pe] Unpermitted Exermitted Source -	isting Source - Previous Permit	#: Dat	e Issued:
4. Manufacturer:	CUSTO	M - DESIGNE	D			
5. Model:	CUSTON	/I - DESIGNE	D			
6. Maximum Capacity:	24 MM G	AL/YR (PRO	DUCT STORAGI	E TANK GROUP)		
7. Date of Construction:	2007-20	08				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	⊠ No		-	following section.		8.
		EMISSION	IS CONTROL	. EQUIPMENT		
10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than en units(s) involved?:	nission	☐ Yes	☐ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	control	□Yes □No	(If yes, attach	and label manufa	cturer guarantee))
amoral of the control eaginment:				Pollutant Contr	olled	
·	PM	PM10	SO ₂	NOx	VOC	со
Control Efficiency						
17. If manufacturer's data is not available,	attach a s	eparate sheet	of paper to provi	de the control equ	uipment design s	pecifications and performance data
to support the above mentioned control ef	ficiency.					
EMISSION	UNIT OF	PERATING	SCHEDULE	(hours/day, h	ours/year, o	r other)
18. Actual Operation	3,760 HOU	RS/YEAR				
19. Maximum Operation	3,760 HOU	RS/YEAR				
		RE	EQUESTED L	.IMITS		
20. Are you requesting any permit limits	? 🔲	∕es 🔯 l	No (If Yes, che	ck all that apply be	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Plea	se attach all r	elevant stack tes	ting summary rep	orts	
☐ Other:						
21. Rationale for Requesting the Limit(s):					



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				DENTIFICAT	ION			
Company Name:			Facility I	Name:		Facili	ity ID No:	
Renova Energy, Inc.			Heyburn Ethanol Plant					
Brief Project Description:			Constru	ction of new e	thanol manufa	acturing plant.		
Е	MISSIO	NS U	NIT (PROC	CESS) IDENT	IFICATION 8	DESCRIPTION	ON	
Emissions Unit (EU) Name:	P	RODUC	T STORAGE	TANK (TK-810	G)			
2. EU ID Number:	F	S-14						
3. EU Type:			New Source					
4. Manufacturer:	С	USTON	1 - DESIGNE	D				
5. Model:	С	USTON	1 - DESIGNE	ס				
6. Maximum Capacity:	24	4 MM G	AL/YR (PRO	DUCT STORAG	E TANK GROUP)		
7. Date of Construction:	20	007-200)8					
8. Date of Modification (if any)								
9. Is this a Controlled Emission Un	it? 区			-		If No, go to line	18.	
			EMISSION	IS CONTROL	. EQUIPMEN	Γ		
10. Control Equipment Name and ID	:							
11. Date of Installation:				12. Date of Mod	lification (if any):			
13. Manufacturer and Model Number	r:							
14. ID(s) of Emission Unit Controlled						···.		
15. Is operating schedule different thunits(s) involved?:16. Does the manufacturer guarante		- trol	Yes	□ No				
efficiency of the control equipment?	e the com	1101	∐Yes ∐No	(If yes, attach		acturer guarantee)	
					Pollutant Cont			
	PM		PM10	SO₂	NOx	VOC	СО	
Control Efficiency								
17. If manufacturer's data is not avai to support the above mentioned cont			parate sheet	of paper to provi	de the control eq	uipment design s	pecifications and performance data	
EMISS	ON UN	IIT OP	ERATING	SCHEDULE	(hours/day,	hours/year, o	r other)	
18. Actual Operation	8,76	O HOU	RS/YEAR					
19. Maximum Operation	8,76	0 HOU	RS/YEAR	·				
			RE	QUESTED L	IMITS			
20. Are you requesting any permit	limits?	ΠY	es 🖾 t	No (If Yes, ched	k all that apply b	elow)		
☐ Operation Hour Limit(s):	,							
☐ Production Limit(s):								
☐ Material Usage Limit(s):						· · · · · · · · · · · · · · · · · · ·		
☐ Limits Based on Stack Test	ing	Pleas	e attach all re	elevant stack test	ing summary rep	orts		
Other:								
21. Rationale for Requesting the L	imit(s):							
L								



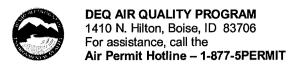
Revision 2 02/14/07

Please see instructions on pag	ye z beloi	e ming out m	e ioiii.			
			IDENTIFICAT	ION		
Company Name:		Facility Name: Facility ID No:				y ID No:
Renova Energy, Inc.		Heyburr	Ethanol Plan	it ·		
Brief Project Description:		Constru	ction of new e	thanol manuf	acturing plant.	
EN	IISSIONS	UNIT (PROC	CESS) IDENT	IFICATION 8	DESCRIPTIO	N
Emissions Unit (EU) Name:	PROD	DUCT STORAGE	TANK (TK-810	H)		
2. EU ID Number:	FS-15					
3. EU Type:			Unpermitted Exermitted Exermitted Source		it #: Date	e Issued:
4. Manufacturer:	CUST	OM - DESIGNE	D			
5. Model:	CUST	OM - DESIGNE	D			
6. Maximum Capacity:	24 MI	M GAL/YR (PRO	DUCT STORAG	E TANK GROUP	")	
7. Date of Construction:	2007-	2008				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit	:? ⊠ No			_	. If No, go to line 1	8.
		EMISSION	IS CONTROL	EQUIPMEN	T	
10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Mod	dification (if any):			
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different that units(s) involved?:	an emission	☐ Yes	□ No			
16. Does the manufacturer guarantee efficiency of the control equipment?	the control	□Yes □No	(If yes, attach	and label manufa	acturer guarantee)	
enciency of the control equipment?		:		Pollutant Cont	rolled	
	PM	PM10	SO ₂	NOx	voc	co
Control Efficiency						
17. If manufacturer's data is not availate to support the above mentioned contr		•	of paper to provi	de the control ed	quipment design sp	pecifications and performance data
	-		SCHEDULE	(hours/day.	hours/year, or	other)
18. Actual Operation		OURS/YEAR		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
19. Maximum Operation		OURS/YEAR		<u>, ,</u>		
			EQUESTED L	IMITS		
20. Are you requesting any permit li	imits?		No (If Yes, che		pelow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testir	ng P	ease attach all re	elevant stack tes	ting summary rep	oorts	
Other:						
21. Rationale for Requesting the Lir	mit(s):					



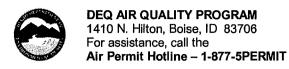
Revision 2 02/14/07

Please see instructions on pag	ge z belore	ming out th	e ioiii.					
			DENTIFICAT	ION				
Company Name:		Facility I	Name:		Facilit	y ID No:		
Renova Energy, Inc.		Heyburn Ethanol Plant						
Brief Project Description:		Constru	ction of new e	thanol manuf	acturing plant.			
EN	IISSIONS I	JNIT (PROC	CESS) IDENT	IFICATION 8	L DESCRIPTIO	N		
1. Emissions Unit (EU) Name:	PRODU	JCT STORAGE	TANK (TK-810	l)				
2. EU ID Number:	FS-16							
3. EU Type:		lew Source						
4. Manufacturer:	CUSTO	OM - DESIGNE	D					
5. Model:	CUSTO	M - DESIGNE	D					
6. Maximum Capacity:	24 MM	GALYR (PRO	DUCT STORAG	E TANK GROUF	P)			
7. Date of Construction:	2007-2	308						
8. Date of Modification (if any)								
9. Is this a Controlled Emission Unit	? ⊠ No	No Tyes If Yes, Complete the following section. If No, go to line 18.						
		EMISSION	IS CONTROL	. EQUIPMEN	T			
10. Control Equipment Name and ID:								
11. Date of Installation:		12. Date of Mod	lification (if any):					
13. Manufacturer and Model Number:								
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different that units(s) involved?:	ın emission	☐ Yes	□ No					
16. Does the manufacturer guarantee efficiency of the control equipment?	the control	ol ☐Yes ☐No (If yes, attach and label manufacturer guarantee)						
emolency of the control equipment:				Pollutant Con	trolled			
	PM	PM10	SO ₂	NOx	voc	со		
Control Efficiency								
17. If manufacturer's data is not availa	able, attach a	separate sheet	of paper to provi	de the control e	quipment design sp	ecifications and performance data		
to support the above mentioned contr	ol efficiency.							
EMISSI	ON UNIT O	PERATING	SCHEDULE	(hours/day,	hours/year, or	other)		
18. Actual Operation	8,760 HO	URS/YEAR						
19. Maximum Operation	8,760 HO	URS/YEAR						
		RE	QUESTED L	IMITS				
20. Are you requesting any permit li	mits?	Yes 🖾 1	No (If Yes, ched	ck all that apply I	pelow)			
☐ Operation Hour Limit(s):								
☐ Production Limit(s):								
☐ Material Usage Limit(s):								
☐ Limits Based on Stack Testin	ng Ple	ase attach all re	elevant stack test	ing summary re	ports			
Other:								
21. Rationale for Requesting the Lir	nit(s):							



Revision 2 02/14/07

Flease see instructions on page 2	. מיטושל	ming out a	ie ioiii.					
			IDENTIFICAT	ION				
Company Name:		Facility	Name:		Facilit	ty ID No:		
Renova Energy, Inc.		Heyburr	n Ethanol Plar	nt				
Brief Project Description:		Constru	ction of new e	thanol manuf	acturing plant.			
EMISS	IONS U	NIT (PRO	CESS) IDENT	IFICATION 8	DESCRIPTIO	N		
1. Emissions Unit (EU) Name: WETCAKE STORAGE								
2. EU ID Number:	FS-17	17						
3. EU Type:		lew Source ☐ Unpermitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued:						
4. Manufacturer:	CUSTO	VI - DESIGNE	D					
5. Model:	CUSTO	M - DESIGNE	D					
6. Maximum Capacity:	21,161 L	.B/HR						
7. Date of Construction:	2007-200	08						
8. Date of Modification (if any)								
9. Is this a Controlled Emission Unit?	⊠ No	☐ Yes If Ye	s, Complete the	following section	. If No, go to line 1	8.		
		EMISSION	IS CONTROL	EQUIPMEN	T			
10. Control Equipment Name and ID:					<u>.</u>			
11. Date of Installation:			12. Date of Mod	dification (if any):				
13. Manufacturer and Model Number:								
14. ID(s) of Emission Unit Controlled:								
15. Is operating schedule different than en units(s) involved?:	nission	☐ Yes	□ No					
16. Does the manufacturer guarantee the efficiency of the control equipment?	control	□Yes □No	(If yes, attach	and label manufa	acturer guarantee)			
enciator of the control edulishment;				Pollutant Cont	rolled			
	РМ	PM10	SO ₂	NOx	VOC	со		
Control Efficiency								
17. If manufacturer's data is not available, to support the above mentioned control eff		eparate sheet	of paper to provi	de the control ec	juipment design sp	pecifications and performance data		
		PERATING	SCHEDULE	(hours/day.	hours/year, o	r other)		
	3,760 HOU			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,		
	3,760 HOU							
		RI	EQUESTED L	.IMITS				
20. Are you requesting any permit limits	? 🗆 Y	′es 🔯 l	No (If Yes, che	ck all that apply b	pelow)			
Operation Hour Limit(s):								
☐ Production Limit(s):								
☐ Material Usage Limit(s):								
☐ Limits Based on Stack Testing	Pleas	se attach all r	elevant stack tes	ing summary rep	orts			
☐ Other:								
21. Rationale for Requesting the Limit(s):							



Revision 2 02/14/07

			IDENTIFICAT	ION			
Company Name:		Facility Name: Facility ID No:				tv ID No:	
Renova Energy, Inc.		1	n Ethanol Plan	ıt		•	
Brief Project Description:		Constru	ction of new e	thanol manuf	acturing plant.		
EMISS	IONS UN				DESCRIPTIO	N	
1. Emissions Unit (EU) Name:		E LOADOUT	· · · · · · · · · · · · · · · · · · ·				
2. EU ID Number:	FS-18						
3. EU Type:		New Source ☐ Unpermitted Existing Source Modification to a Permitted Source Previous Permit #: Date Issued:					
4. Manufacturer:	сиѕтом	STOM - DESIGNED					
5. Model:	сиѕтом	- DESIGNE	D				
6. Maximum Capacity:	21,161 LB	/HR					
7. Date of Construction:	2007-2008	8					
8. Date of Modification (if any)							
9. Is this a Controlled Emission Unit?	⊠ No □] Yes If Ye	s, Complete the	following section	. If No, go to line 1	8.	
	E	EMISSION	IS CONTROL	. EQUIPMEN	T		
10. Control Equipment Name and ID:							
11. Date of Installation:			12. Date of Mod	lification (if any):		,	
13. Manufacturer and Model Number:							
14. ID(s) of Emission Unit Controlled:							
15. Is operating schedule different than emiunits(s) involved?:16. Does the manufacturer guarantee the c] Yes	□ No				
efficiency of the control equipment?	DINITION]Yes □No	(If yes, attach	and label manufa	acturer guarantee)		
			I	Pollutant Cont	rolled		
F	,W	PM10	SO₂	NOx	VOC	со	
Control Efficiency							
17. If manufacturer's data is not available, a to support the above mentioned control effic		parate sheet	of paper to provi	de the control eq	uipment design sp	pecifications and performance data	
EMISSION L	NIT OP	ERATING	SCHEDULE	(hours/day, l	hours/year, or	other)	
18. Actual Operation 8,	760 HOUR	S/YEAR					
19. Maximum Operation 8,	760 HOUR	S/YEAR					
		RE	QUESTED L	IMITS			
20. Are you requesting any permit limits?	☐ Ye	s 🖾 N	No (If Yes, chec	k all that apply b	elow)		
☐ Operation Hour Limit(s):							
☐ Production Limit(s):				*			
☐ Material Usage Limit(s):						· · · · · · · · · · · · · · · · · · ·	
☐ Limits Based on Stack Testing	Please	attach all re	elevant stack test	ing summary rep	orts		
☐ Other:							



Revision 2 02/14/07

- Todge dec inditactions on page	3 2 BOIOI 0	ming out a	10 10/11.			
			IDENTIFICAT	ION		
Company Name:		Facility Name: Facility ID No:				
Renova Energy, Inc.		Heyburn Ethanol Plant				
Brief Project Description:		Constru	ction of new e	thanol manuf	acturing plant.	
EMI	SSIONS U	NIT (PROC	CESS) IDENT	IFICATION 8	& DESCRIPTIO	N
1. Emissions Unit (EU) Name:	COOLIN	IG TOWER #1	i			
2. EU ID Number:	FS-19					
3. EU Type:	⊠ New ☐ Modif		Unpermitted Exermitted Ex		nit #: Date	e Issued:
4. Manufacturer:	MARLE	Υ				
5. Model:	W433A-	4.0-2				
6. Maximum Capacity:	2,800 G	AL/MIN				
7. Date of Construction:	2007-20	08				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	is a Controlled Emission Unit? No Yes If Yes, Complete the following section. If No, go to line 18.					
		EMISSION	IS CONTROL	EQUIPMEN	Τ	
10. Control Equipment Name and ID:				···		
11. Date of Installation:			12. Date of Mod	dification (if any):	:	
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than units(s) involved?:	emission	☐ Yes	□ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	ne control	□Yes □No	(If yes, attach	and label manuf	acturer guarantee)	
eniciency of the control eddibinent?				Pollutant Cont	trolled	
	РМ	PM10	SO ₂	NOx	voc	СО
Control Efficiency						
17. If manufacturer's data is not availab	le, attach a s	eparate sheet	of paper to provi	de the control ed	uipment design st	pecifications and performance data
to support the above mentioned control	efficiency.					
EMISSIO	N UNIT OF	PERATING	SCHEDULE	(hours/day,	hours/year, or	other)
18. Actual Operation	8,760 HOU	RS/YEAR				
19. Maximum Operation	8,760 HOU	RS/YEAR				
		RE	QUESTED L	IMITS		
20. Are you requesting any permit lim	its?	∕es ⊠ N	No (If Yes, ched	k all that apply b	pelow)	
Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):						
☐ Limits Based on Stack Testing	Pleas	se attach all re	elevant stack test	ing summary rep	oorts	
☐ Other:						
21. Rationale for Requesting the Limit	t(s):					



Revision 2 02/14/07

			IDENTIFICAT	ION		
Company Name:		Facility I			Facilit	y ID No:
Renova Energy, Inc.		Heyburn Ethanol Plant				•
Brief Project Description:		Constru	ction of new e	thanol manufa	acturing plant.	
	ONS UN	1			DESCRIPTIO	N
Emissions Unit (EU) Name:		TOWER #2				
2. EU ID Number:	FS-20					
3. EU Type:	☑ New So	ource [Unpermitted Exermitted Source -	disting Source - Previous Permi	t#: Date	e Issued:
4. Manufacturer:	MARLEY		47			
5. Model:	W433A-3.	0-3				
6. Maximum Capacity:	11,400 GA	AL/MIN				
7. Date of Construction:	2007-2008	3				
8. Date of Modification (if any)						
9. Is this a Controlled Emission Unit?	☑ No ☐ Yes If Yes, Complete the following section. If No, go to line 18.					
	E	MISSION	IS CONTROL	. EQUIPMEN	Γ	
10. Control Equipment Name and ID:						
11. Date of Installation:			12. Date of Mod	lification (if any):		
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emisunits(s) involved?:	ssion [] Yes	□ No			
16. Does the manufacturer guarantee the coefficiency of the control equipment?	ontrol []Yes □No	(If yes, attach	and label manufa	cturer guarantee)	
and design of the service and an arrangement.				Pollutant Cont	rolled	
P	М	PM10	SO ₂	NOx	voc	со
Control Efficiency				,		
17. If manufacturer's data is not available, a to support the above mentioned control effic		parate sheet	of paper to provi	de the control eq	uipment design sp	pecifications and performance data
EMISSION U	NIT OPE	ERATING	SCHEDULE	(hours/day, l	hours/year, or	other)
18. Actual Operation 8,7	760 HOUR	S/YEAR	***************************************			
19. Maximum Operation 8,7	760 HOUR	S/YEAR				
		RE	EQUESTED L	IMITS		
20. Are you requesting any permit limits?	☐ Ye	s 🖾 l	No (If Yes, ched	k all that apply b	elow)	
☐ Operation Hour Limit(s):						
☐ Production Limit(s):						
☐ Material Usage Limit(s):				,		
☐ Limits Based on Stack Testing	Please	attach all re	elevant stack test	ing summary rep	orts	······································
Other:						



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			IDENTIFICATION			
Company Name:		Facility	Name:	Facility	ID No:	
Renova Energy, Inc.		Heybu	urn Ethanol Plant			
Brief Project Description:		Const	truction of new ethan	ol manufacturing	յ plant.	
			EXEMPTION			
3			.01.c and d for a list of i the Permit to Construc		on engines	
EN	GINE (EM	SSION UNI	T) DESCRIPTION AND	SPECIFICATIONS		
1. Type of Unit New U		npermitted E unit with Per	Existing Unit rmit #: Date Iss	sued:		
2. Use of Engine: Normal	Operation	☐ Emer	gency 🗌 Back-up 🗀	Other:	,	
3. Engine ID Number:		4. Rated Po	ower:			
ES-5 🛮 🖾 2,248 Brake Horsepower(bhp) 🖾 1,600 Kilowatts(kW)						
5. Construction Date:		6. Manufac	turer:	7. Model:		
2007-2008		CAT		G3520C		
8. Date of Modification (if ap	odification (if applicable): 9. Serial Number (if available): 10 Control Device (if any):				(if any):	
					49.49.00.00	
	FU	EL DESCR	IPTION AND SPECIFICA	ATIONS		
11.	☐ Diese	el Fuel (#)	☐ Gasoline Fuel	⊠ Natural Gas	Other Fuels	
Fuel Type	(ga	l/hr)	(gal/hr)	(cf/hr)	(unit:noted)	
12. Full Load Consumption Rate				13,800 scf/hr	23,056 scf/hr	
13. Actual Consumption Rate	<u> </u>			112.4 MMscf/yr	187.8 MM scf/yr	
14. Sulfur Content wt%			N/A	N/A	700 ppm H2S	
, and the second se		OPERAT	ING LIMITS & SCHEDU	LE		
15. Imposed Operating Limit	s (hours/ye	ar, or gallor	ns fuel/year, etc.):			
Max biogas combusti	on in both	generators o	combined = 375.7 MMscf	f/yr		
16. Operating Schedule (hou	rs/day, mo	nths/year, e	etc.):			
24 hr/day, 365 days/y	⁄r					



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			IDENTIFICATION	N					
Company Name:		Facility	Name:		Facility ID) No:			
Renova Energy, Inc.		Heybu	urn Ethanol Plant						
Brief Project Description:		empt from the Permit to Construct requirements. SSION UNIT) DESCRIPTION AND SPECIFICATIONS Inpermitted Existing Unit Unit Unit With Permit #: Date Issued: □ Emergency □ Back-up □ Other: 4. Rated Power: □ 2,248 Brake Horsepower(bhp) □ 1,600 Kilowatts(kW) 6. Manufacturer: □ CAT □ G3520C 9. Serial Number (if available): 10 Control Device (if any): EL DESCRIPTION AND SPECIFICATIONS el Fuel (#) □ Gasoline Fuel □ Natural Gas □ Other Fuels							
			EXEMPTION						
1	Please refer to IDAPA 58.01.01.222.01.c and d for a list of internal combustion engines that are exempt from the Permit to Construct requirements.								
ENGINE (EMISSION UNIT) DESCRIPTION AND SPECIFICATIONS									
1. Type of Unit New Unit Unpermitted Existing Unit Modification to a unit with Permit #: Date Issued:									
2. Use of Engine: Norma	Operation	□ Emer	gency 🗌 Back-up 🖺	Other:					
3. Engine ID Number: 4. Rated Power:									
ES-6					,600 Kilow	atts(kW)			
5. Construction Date:	turer:	7. Model:							
2007-2008 CAT				G3520	С				
8. Date of Modification (if applicable): 9. Ser			ımber (if available):	10 Contro	10 Control Device (if any):				
	FU	EL DESCRI	IPTION AND SPECIFICA	ATIONS					
11.		el Fuel (#)			ıral Gas	Other Fuels			
Fuel Type	(ga	l/hr)	(gal/hr)	(cf/l	hr)	(unit:noted)			
12. Full Load Consumption Rate				13,800	scf/hr	23,056 scf/hr			
13. Actual Consumption Rate				112.4 M	Mscf/yr	187.3 MM scf/yr			
14. Sulfur Content wt%			N/A	N/	A	700 ppm H2S			
		OPERATI	ING LIMITS & SCHEDU	LE					
15. Imposed Operating Limit	s (hours/ye	ear, or gallon	ns fuel/year, etc.):						
Max biogas combusti	on in both	generators of	combined = 375.7 MMsc	f/yr					
16. Operating Schedule (hou	ırs/day, mo	nths/year, e	tc.):						
24 hr/day, 365 days/y	′r								

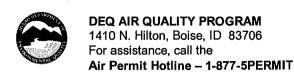


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	IDENTIF	ICATION					
Company Name:	Facility Name:		Facility ID No:				
Renova Energy, Inc.	Heyburn Ethano	ol Plant					
Brief Project Description:	Construction of new ethanol manufacturing plant.						
COOLING	TOWER IDENTIFI	CATION AND DESC	CRIPTION				
	Tower 1	Tower 2	Tower 3	Tower 4			
1. Emission Unit Name	Cooling Tower #1	Cooling Tower #2					
2. Emission Unit ID Number	FS-19	FS-20					
3. Stack/Vent ID Number	NA	NA					
4. Tower Type (N: New, U: Unpermitted, M: Modification)	⊠ N, □ U, □ M	⊠ N, □ U, □ M	□ N, □ U, □ M	□ N, □ U, □ M			
5. Current Permit Number	NA	NA					
6. Tower Construction Date	2007-2008	2007-2008					
7. Tower Manufacturer	Marley	Marley					
8. Tower Model Number	W433A-4.0-2	W433A-3.0-3					
9. Number of Cells in Tower	Unknown	Unknown					
10. Tower Maximum Water Flow Rate	2,800 GAL/MIN	11,400 GAL/MIN					
11. Measured TDS Content (if known)	NA	NA					
12. Do You Use Additives in the Water? If Yes, Provide an MSDS form for each additive	⊠ No □ Yes	⊠ No □ Yes	□ No □ Yes	□ No □ Yes			
		ENT INFORMATIO					
13. Control Equipment	⊠ No ☐ Yes	⊠ No □ Yes	∐ No ∐ Yes	☐ No ☐ Yes			
14. Control Equipment ID Number							
15. Control Equipment Efficiency	OPERATING	SCHEDIII E					
16. Actual Operation (hours per year)	8,760	8,760					
17. Maximum Operation (hours per year)	8,760	8,760					
R	EQUEST FOR PE	RMIT LIMITATIONS	3				
18. Are you requesting any permit limits?	⊠ No ☐ Yes. If	Yes, fill in all that a	pply below.				
Tower Served Operation Hour Limits:	ΓDS Limits (ppm):	Material Usag	e Limits: Other:				
Tower 1				•			
Tower 2							
Tower 3							
Tower 4							

Emissions Units - Cooling	Towers Inform	ation Form	EU4
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19. Rationale for Requesting the Limit(s):



PERMIT TO CONSTRUCT APPLICATION

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Please see instructions on page 3 before filling out the form.

Trease see instructions on pe	igo o boior		, o, , , , , , , , , , , , , , , , , ,			
		IDI	NTIFICATION			
Company Name:		Facility N	ame:]	Facility ID I	No:
Renova Energy, Inc.		Heyburn B	Ethanol Plant			
Brief Project Description:		Construct	ion of new ethanol ma	anufacturing	plant.	
			EXEMPTION			
Please see IDAPA 58.01.01. requirements.	222 for a l	ist of industria	al boilers that are ex	empt from F	Permit to C	Construct
В	oiler (EMI	SSION UNIT) E	ESCRIPTION AND	SPECIFICAT	IONS	
1. Type of Request ⊠ New I	Unit 🗆 L	Inpermitted Exi	sting Unit	cation to a ur	nit with Per	mit #:
2. Use of Boiler: Substitution 2. Use of Boiler: Control 3. With the substitution 4. With the substitution 5. With the su		cess 🗌 % U	sed For Space Heat	☐ % Used	For Gener	rating Electricity
3. Boiler ID Number: ES-4		4. Rated Capa	·			Per Hour (MMBtu/hr) Iour (1,000 lb
5. Construction Date: 200	7-2008	6. Manufactur	er: Superior	7. Model:	8-X-1100	00-S200-WBCF-G
8. Date of Modification (if ap	plicable):	9. Serial Num	ber (if available):	10. Contro	l Device (if	any):
				Note: Attac		ble control
	FL	JEL DESCRIPT	ION AND SPECIFIC	ATIONS		
11. Fuel Type	☐ Dies	el Fuel (#	Natural Gas	☐ Coa	al l	Other Fuels
	(gal/hr)	(cf/hr)	(unit:	/hr)	(unit: /hr)
12. Full Load Consumption Rate			72,000 scf/hr			120,335 scf/hr
13. Actual Consumption Rate			72,000 scf/hr			980.3 MMscf/yr
14. Fuel Heat Content (Btu/unit, LHV)			1,020 Btu/scf			612 Btu/scf
15. Sulfur Content wt%						700 ppm H2S
16. Ash Content wt%			N/A			
	STI	EAM DESCRIP	TION AND SPECIFIC	CATIONS		
17. Steam Heat Content		NA	NA			W 1
18. Steam Temperature (°F)		N/A	N/A			
19. Steam Pressure (psi)		N/A	N/A			
20. Steam Type		N/A	N/A		urated rheated	☐ Saturated ☐ Superheated
		OPERATING	G LIMITS & SCHEDU	ILE		
21. Imposed Operating Limit	s (hours/v	ear, or gallons	fuel/year, etc.): 982.8	B MMscf/yr bi	ogas	

22. Operating Schedule (hours/day, months/year, etc.): 24 hr/day, 365 days/yr

Baghouses Control Equipment Form BCE

PERMIT TO CONSTRUCT APPLICATION

DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline – 1-877-5PERMIT

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Please see instructions on page 2 before filling out the form.

			IDENTIFI	IDENTIFICATION					
≣nergy, In	ij		Facility Name: H∈	yburn Ethanol Plant		T-	cility ID #:		
ICATION			B/8	4GHOUSE			BAG	ဖွ	
2.	က်	4.	5.	9	7.	89	6	10.	7.
EU ID No.	CE ID No.	Stack ID No.	Baghouse Manufacturer	Baghouse Model No.	Type	Type	Size (Dia x Ht)	No. of Bags	Air to Cloth
ES-1	C-1		TBD	TBD	TBD	TBD	TBD	TBD	TBD
ES-2	C-2		TBD	TBD	TBD	TBD	TBD	TBD	TBD
ES-3	C-3		TBD	TBD	TBD	TBD	TBD	TBD	TBD
TIE TO THE TOTAL PROPERTY OF THE TOTAL PROPE									
	Company Name: Renova Energy, In Brief Project Description: 1. 2. The ED Seription of The Carring #1 ES-1 Grain Receiving #2 ES-2 Grain Milling and Cleaning ES-3 Cleaning ES-3	ES-1 C-1 ES-2 C-2 ES-3 C-3 ES-3 C-3 ES-3 C-3	3. 4. Stack No. ID No2	3. 4. Stack Baghou ID No. ID No. TBD	Facility Name: Heybu BAGH 3. 4. 5. EID Stack Baghouse Manufacturer No. ID No. TBD TBI -2 TBD TBD TBI -3 TBD TBD TBI -3 TBD TBD TBI -3 TBD TBD TBI -3 TBD TBD TBI -4 TBD TBI -5 TBD TBI -6 TBD TBI -7 TBD TBI -7 TBD TBI -8 TBD TBI -9 TB	Facility Name: Heyburn Ethanol Plant	Facility Name: Heyburn Ethanol Plant Facility Name: Heyburn Ethanol Plant 3. 4. 5. 6. 7. 8. ElD Stack Baghouse Manufacturer Baghouse Type Type -1 TBD TBD TBD TBD TBD -2 TBD TBD TBD TBD TBD -3 TBD TBD TBD TBD TBD -4 TBD TBD TBD TBD TBD -5 TBD TBD TBD TBD TBD -6 TBD TBD TBD TBD TBD TBD -7 TBD TBD TBD TBD TBD TBD -8 TBD T	Facility Name: Heyburn Ethanol Plant Facility Name: Heyburn Ethanol Plant Facility	Facility Name: Heyburn Ethanol Plant Facility ID #: Facility ID #:

Facility-wide emission Inventory - Criteria Pollutants - Point Sources Form El-CP1

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	LITY PROGRA Boise, ID 837c call the Air Per SPERMIT	M noit							ERMIT TO	CONSTRU	PERMIT TO CONSTRUCT APPLICATION Revision 2 2/14/2007	ATION Revision 2 2/14/2007
Company Name:	Renova Energy, Inc.	/, Inc.						4.					
Facility Name:						Heybı	Heybum Ethanol Plant	ant			• .		
Facility ID No.:										-			-
Brief Project Description:	Construction of new ethanol manufacturing plant.	new ethanol m	anufacturing pl										
	SUM	Please SUMMARY OF FACILITY WIDE	Plee ACILITY WI		tions on next p ON RATES F	ise instructions on next page before filling out the form. EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES	g out the form. A POLLUT	ANTS - POI	IT SOURCE	S			
							3.						
-	2.	Md	PIM ₁₀	S	SO ₂	NOx	×	00		VOC	၁	Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
		1			Foint Source(s)	rce(s)							
Grain Receiving #1/Baghouse	ES-1/C-1	0.74	3.24										
Grain Receiving #2	ES-2/C-2	0.18	0.79										
Grain Milling and Cleaning	ES-3/C-3	0.05	0.21						·				
Boiler	ES-4	0.55	2.24	14.00	57.10	7.16	3.17	1.58	6:39	99.0	2.70		
Electric Generator Engine #1	ES-5	00.0	00.0	2.69	10.94	2.48	10.09	11.15	45.42	1.67	6.78	***************************************	
Electric Generator Engine #2	ES-6	00.00	00.0	2.69	10.94	2.48	10.09	11.15	45.42	1.67	6.78		
Loading Rack	ES-7									1.67	7.72		
Anaerobic Digester Tank 1	ES-8												
Anaerobic Digester Tank 2	ES-9												
name of the emissions unit10										9			
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		1.52	6.48	19.38	78.98	12.12	23.35	23.88	97.23	5.67	23.98		

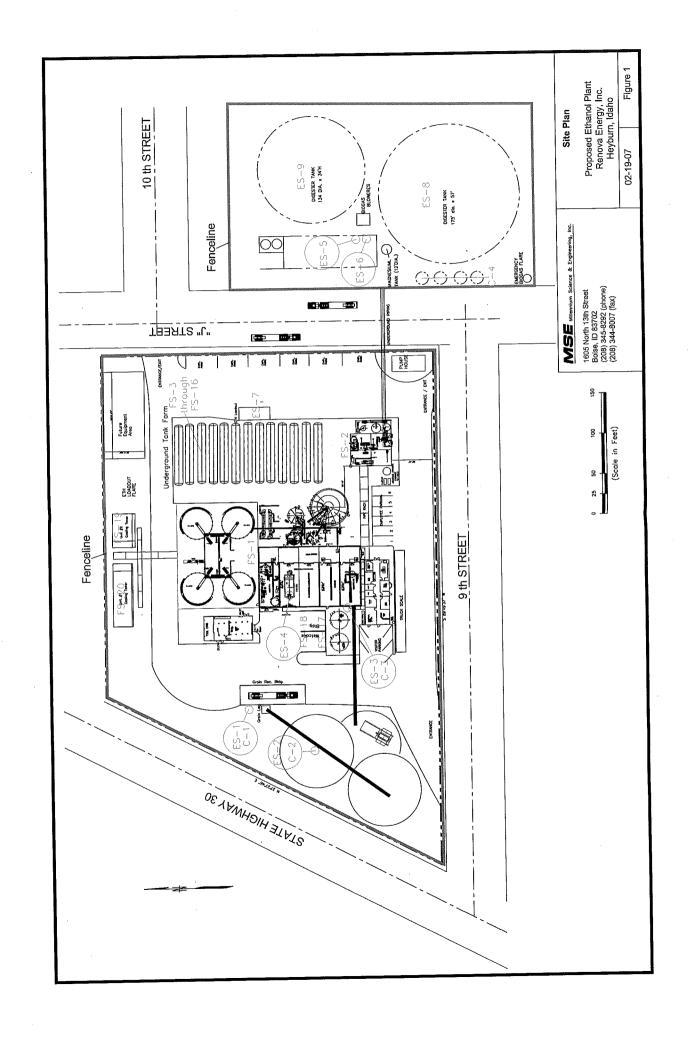
Facility-wide emission Inventory - Criteria Pollutants - Fugitive Sources Form EI-CP2

	DEQ AIR QUALITY PROGRAM	Y PROGRAM							<u> </u>	PERMIT TO CONSTRUCT APPLICATION	CONSTRU	JCT APPL	ICATION
	1410 N. Hilton, Boise, ID 83/06 For assistance, call the Air Permit Hotline - 877-5PERMIT	ilse, ID 83/06 Ill the Air Permit											Revision 1 1/11/2007
Company Name:	Renova Energy, Inc.	ဥ											
Facility Name:						Heybu	Heybum Ethanol Plant	ıt.					
Facility ID No.:													
Brief Project Description:	Construction of new ethanol manufacturing plant.	w ethanol manı	ıfacturing plan					-					
	MIMINS	Please se SUMMARY OF FACILITY WIDE EW	Plea		ions on next p	age before fillin	g out the form.	e instructions on next page before filling out the form. ISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES	IVE SOUR	CES			
							3.						
1	2.	PM ₁₀	10	SO ₂	2	NOX	×	00		200	S	Fe	Lead
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	Τ/yr	lb/hr	T/yr	lb/hr	T/yr
					Fugitive Source(s)	ource(s)							
LDAR Alcohol Plant	FS-1					-				0.82	3.60		
Ethanol Absorption Column	FS-2									7.17	31.40		
Shift Tank (TK-801 A)	FS-3									0.05	0.22		
Shift Tank (TK-801 B)	FS-4									0.05	0.22		
Off-Spec Product Tank (TK-803)	FS-5									0.05	0.22		The second secon
Denaturant Tank (TK-808 A)	FS-6									0.54	2.35		
Denaturant Tank (TK-808 B)	FS-7									0.54	2.35		
Product Storage Tank (TK-810 A)	FS-8									0.12	0.51		
Product Storage Tank (TK-810 B)	FS-9									0.12	0.51		
Product Storage Tank (TK-810 C)	FS-10									0.12	0.51		
Product Storage Tank (TK-810 D)	FS-11									0.12	0.51		
Product Storage Tank (TK-810 E)	FS-12									0.12	0.51		
Product Storage Tank (TK-810 F)	FS-13									0.12	0.51		
Product Storage Tank (TK-810 G)	FS-14									0.12	0.51	-	
Product Storage Tank (TK-810 H)	FS-15									0.12	0.51		
Product Storage Tank (TK-810 I)	FS-16									0.12	0.51		:
Wetcake Storage	FS-17									0.18	0.80		
Wetcake Loadout	FS-18									0.18	0.80		
Cooling Tower #1	FS-19	0.05	0.10										
Cooling Tower #2	FS-20	0.09	0.40										
Name of Fugitive Source 21	i												
(insert more rows as needed)													
Total		0.11	0.50							10.67	46.55		

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	TY PROGRAM oise, ID 83706 all the Air Permit PERMIT							<u>d</u> .	PERMIT TO CONSTRUCT APPLICATION Revision 2 21/4/2007	CONSTR	OCT APPI	CATION Revision 2 2/14/2007
			Ple	Please see instruc	tions on next p	instructions on next page before filling out the form.	g out the form.						
Company Name:	Renova Energy, Inc.	nc.											
Facility Name:						Heybu	Heyburn Ethanol Plant	it					
Facility ID No.:													
Brief Project Description:	Construction of new ethanol manufacturing plant.	ew ethanol man	ufacturing plant										
	SUMMAR	SUMMARY OF EMISSIONS INCREASE	SIONS INCR		POSED PT	(PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES	JSLY MODE	LED PTE) -	POINT SO	JRCES			
7	ç	DAG		Ċ			_د ن						
Tmissions units	2. di	AI L		- 1	- 1	Š	- 1	3	- 1	VOC	ည		Lead
	Statch ID	lb/hr	T/yr	lb/hr	T/yr lb/l· Point Source(s)	lb/hr irce(s)	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Grain Receiving #1/Baghouse	ES-1/C-1	0.74	3.24								-		
Grain Receiving #2	ES-2/C-2	0.18	0.79	17000									
Grain Milling and Cleaning	ES-3/C-3	0.05	0.21										
Boiler	ES-4	0.55	2.24	14.00	57.10	7.16	3.17	1.58	6.39	0.66	2.70		
Electric Generator Engine #1	ES-5	00.00	0.00	2.69	10.94	2.48	10.09	11.15	45.42	1.67	6.78		
Electric Generator Engine #2	ES-6	00.0	00:00	2.69	10.94	2.48	10.09	11.15	45.42	1.67	6.78		
Loading Rack/Vapor Combustion UES-7	ES-7									1.67	7.72		
Anaerobic Digester Tank 1	ES-8												
Anaerobic Digester Tank 2	ES-9												
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19			7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7										
name of the emissions unit20					3								
name of the emissions unit21			The state of the s										
(insert more rows as needed)													
Total		1.52	6.48	19.38	78.98	12.12	23.35	23.88	97.23	5.67	23.98		

Emission Inventory Criteria Pollutants - Project emissions increase - Fugitive Sources Form EI-CP4

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	IY PROGRAM bise, ID 83706 Ill the Air Permit	4.						<u>a</u>	ERMIT TO	PERMIT TO CONSTRUCT APPLICATION Revision 2/14/200	ICT APPL	ICATION Revision 2/14/200
Company Name:	Renova Energy, Inc.	JC.											
Facility Name:						Heybu	Heyburn Ethanol Plant	nt					
Facility ID No.:	\neg												
Brief Project Description:	3	ew etnanol man	uracturing plant		1								
	SUMMARY	SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES	ONS INCRE	ASE (PROP	OSED PTE	- PREVIOUS	out the form.	ED PTE) - F	-UGITIVE S	OURCES			
					Air Pollut	3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)	n Change i	n Emission	s Rate (Ibs/	hr or t/yr)			
1.	2.	4	PM ₁₀	S	so ₂	SN	NO _X	8	0	VOC	0	Lead	þr
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
					Fugitive Source(s)	ource(s)							
LDAR Alcohol Plant	FS-1									0.82	3.60		
Ethanol Absorption Column	FS-2									7.17	31.40		
Shift Tank (TK-801 A)	FS-3									0.05	0.22		
Shift Tank (TK-801 B)	FS-4									0.05	0.22		
Off-Spec Product Tank (TK-803)	FS-5									0.05	0.22		
Denaturant Tank (TK-808 A)	FS-6									0.54	2.35		
Denaturant Tank (TK-808 B)	FS-7									0.54	2.35		
Product Storage Tank (TK-810 A)	FS-8									0.12	0.51		
Product Storage Tank (TK-810 B)	FS-9									0.12	0.51		
Product Storage Tank (TK-810 C)	FS-10									0.12	0.51		
Product Storage Tank (TK-810 D)	FS-11									0.12	0.51		
Product Storage Tank (TK-810 E)	FS-12									0.12	0.51		1
Product Storage Tank (TK-810 F)	_									0.12	0.51		
Product Storage Tank (TK-810 G)	-									0.12	0.51		
Product Storage Tank (TK-810 H)	FS-15									0.12	0.51		
Product Storage Tank (TK-810 I)	FS-16									0.12	0.51		
Wetcake Storage	FS-17									0.18	0.80		
Wetcake Loadout	FS-18									0.18	0.80		
Cooling Tower #1	FS-19	0.02	0.10										
Cooling Tower #2	FS-20	60.0	0.40										
Name of Fugitive Source 21													
(insert more rows as needed)													
Total		0.11	0.50							10.67	46.55		
												- T	



Modeling information - Impact Analysis Form MI1

	DEQ AIR QU/ 1410 N Hiltor	DEQ AIR QUALITY PROGRAM 1410 N Hilton Boise ID 83706	N (9)		PE	PERMIT TO CONSTRUCT APPLICATION Revision 2	NSTRUCT A	PPLICATION Revision 2
A COLUMN TO A COLU	For assistance, call the Ai Hotline - 1-877-5PERMIT	For assistance, call the Air Per Hotline - 1-877-5PERMIT	ermit					2/14/2007
Company Name:	Renova Energy, Inc.	y, Inc.						
Facility Name:				Heybu	Heyburn Ethanol Plant			
Facility ID No.:								
Brief Project Description:	Construction of	Construction of new ethanol ma	manufacturing plant.	nt.				
		Please see in	structions on	next page befo	Please see instructions on next page before filling out the form	e form.		
	SUM	SUMMARY OF AIR	IMPACT ANAL	YSIS RESULTS	IR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS	OLLUTANTS		
		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results (uq/m3)	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (µg/m3)	NAAQS (µg/m3)	Percent of NAAQS
	24-hour	AN	5	30.10	81.00	111.10	150	71%
	Annual	AN	_	9:30	27.00	36.30	20	%02
	3-hr	ΑΝ	25	176.00	42.00	218.00	1300	17%
	24-hr	ĄN	5	93.50	26.00	119.50	365	33%
	Annual	AN	1	24.30	8.00	32.30	80	40%
	Annual	NA	-	20.40	32.00	52.40	100	52%
	1-hr	ΑΝ	2000	804.00	10,200.00	11,004.00	40000	28%
	8-hr	AN	200	661.00	3,400.00	4,061.00	10000	41%

Modeling information - Point Source Stack Parameters Form MI2

							DEDM	IT TO COL	TOHATON	DEPMIT TO CONSTRICT APPLICATION
	DEQ AIR QUA 1410 N. Hilton,	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706	90							Revision 2
	For assistance, call the Air Hotline - 1-877-5PERMIT	For assistance, call the Air Permit Hotline - 1-877-5PERMIT	mit							2/14/2007
Company Name:	Renova Energy, Inc.	y, Inc.								
Facility Name:					Heybu	Heybum Ethanol Plant	ıt			
_										
Brief Project Description:	Construction o	Construction of new ethanol manufacturing plant.	anufacturing p	ant.	75 -1 -1	Line of the flat				
		Flease see	POINT SOU	Instructions on next page before minig our POINT SOURCE STACK PARAMETERS	ge berore III K PARAME	Please see instructions on next page before militig out the form: POINT SOURCE STACK PARAMETERS	Offili.			
7	2.	3a.	3b.	4.	5.	.9	7.	8.	9.	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Stack Modeled Height (m) Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)
Point Source(s)										
#1 (ES-1)	<u>ن</u> 1-1				12.20	0.61	Ambient		32.35	Vertical
Grain Receiving #2 (ES-2)	C-2				39.60	0.81	Ambient		3.05	Vertical
Grain Mill/Cleaning (ES-3)	గ్ర				10.70	0.30	Ambient		00.0	Horizontal
Boiler (ES-4)	ES-4				24.40	1.27	491.48		9.45	Vertical
Electric Generator #1 (ES-5)	ES-5				9.15	0.41	533.15		19.18	Vertical
Electric Generator #2 (ES-6)	ES-6				9.15	0.41	533.15		19.18	Vertical
	-									
name of the emissions unit8				-		-				
name of the emissions unit9										
name of the emissions unit10										
name of the emissions unit11										
name of the emissions unit12			5							
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18							-			
name of the emissions unit19										
name of the emissions unit20										
name of the emissions unit21										
(insert more rows as needed)			-							

	DEQ AIR QUALITY PROC 1410 N. Hilton, Boise, ID For assistance, call the Air Hotline - 1-877-5PERMIT	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Permit Hotline - 1-877-5PERMIT	oit 1				PERMI	T TO CONS	PERMIT TO CONSTRUCT APPLICATION Revision 2 2/14/2007	LICATION Revision 2 2/14/2007
Company Name:	Renova Energy, Inc.	/, Inc.								
Facility Name:		- The section of the			Heyburn	Heyburn Ethanol Plant	-			
Brief Project Description:	Construction o	Construction of new ethanol manufacturing plant.	nufacturing plan							
		Please s	ee instruction.	see instructions on next page before filling out the form.	e before fillin	g out the form	٠			
			FUGITIV	FUGITIVE SOURCE PARAMETERS	ARAMETER	S				
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	.6	10.
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North (°)	Initial Vertical Dimension (m)	Initial Horizontal Dimension (m)
Area Source(s)										
name of the emissions unit1	NA									
name of the emissions unit2										
name of the emissions unit3										
name of the emissions unit4										
name of the emissions unit5										
name of the emissions unit6										
name of the emissions unit7										
name of the emissions unit8										
name of the emissions unit9										
name of the emissions unit10										
Volume Source(s)										
name of the emissions unit11										
name of the emissions unit12										
name of the emissions unit13										
name of the emissions unit14										
name of the emissions unit15										
name of the emissions unit16										
name of the emissions unit17										
name of the emissions unit18										
name of the emissions unit19										
(insert more rows as needed)										

	DEQ AIR QUALITY PROG	ALITY PRO	GRAM			PERMIT TO CONSTRUCT APPLICATION
	1410 N. Hilton, Boise, ID 8 For assistance, call the Air Hotline - 1-877-5PERMIT	1410 N. Hilton, Boise, ID 83706 For assistance, call the Air Perm Hotline - 1-877-5PERMIT	83706 ir Permit			Kevision 2 2/14/2007
Company Name:	Renova Energy, Inc.	gy, Inc.				
Facility Name:					Heyburn Ethanol Plant	Plant
Facility ID No.:			-			
Brief Project Description:	Construction	of new ethar	Construction of new ethanol manufacturing plant	g plant.		
		Please se	e instructions	on next page	Please see instructions on next page before filling out the form.	he form.
		BN		STRUCTU	ILDING AND STRUCTURE INFORMATION	
1.	2.	3.	4.	5.	6.	7.
Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments
BLD 1 (TK-401a)			Assumed 0	18.75	1	Circular Structure 11.73 m Diameter
BLD 2 (TK-401c)			Assumed 0	18.75	1	1 Circular Structure 11.73 m Diameter
BLD_3 (TK-401b)			Assumed 0	18.75	Į.	1 Circular Structure 11.74 m Diameter
BLD_4 (TK-401d)			Assumed 0	18.75		1 Circular Structure 11.74 m Diameter
BLD_5 (TK-616)			Assumed 0	6.40	•	1 Circular Structure 6.09 m Diameter
BLD 6 (TK-608)			Assumed 0	17.98	1	1 Circular Structure 6.70 m Diameter
BLD 7 (TK-601)			Assumed 0	17.98	,	Circular Building 6.70 m Diameter
BLD_8 (TK -501)			Assumed 0	18.29	Į.	Circular Structure 14.37 m Diameter
BLD_9 (Grain Silo)			Assumed 0	39.62	1	1 Circular Structure 27.41 m Diameter
BLD_10 (Grain Silo)			Assumed 0	39.62		1 Circular Structure 27.78 m Diameter
BLD_11 (Biogas Building)	116.67	40.19	Assumed 0	6.10	1	1 Polygonal Structure Shape
BLD 12 (Digester Tank)			Assumed 0	10.36		1 Circular Structure 40.40 m Diameter
BLD 13 (Digester Tank)		-	Assumed 0	17.37		1 Circular Structure 52.75 m Diameter
BLD_14 (H2S Scrubber)			Assumed 0	3.96		I Circular Structure 4.74 m Diameter
BLD_15 (H2S Scrubber)			Assumed 0	3.96	ļ	Circular Structure 4.74 m Diameter
BLD_16 (H2S Scrubber)			Assumed 0	3.96	ļ	Circular Structure 4.73 m Diameter
BLD_17 (H2S Scrubber)			Assumed 0	3.96		Circular Structure 4.73 m Diameter
BLD_18 (Pump House)	40.91	19.78	Assumed 0	3.05		Rectangular Structure Shape
BLD_19 (Grain Receiving Building)	80.54	24.15	Assumed 0	12.19		1 Rectangular Structure Shape
BLD_20 (Maintenance Building)	59.81	29.72	Assumed 0	14.02		1 Rectangular Structure Shape
BLD_21 (Ethanol Plant)	126.28	75.00	Assumed 0	14.02		1 Rectangular Structure Shape
BLD_22 (Office)	29.89	79.86	Assumed 0	4.88		1 Rectangular Structure Shape
BLD_23 (Distillation Tower)	50.00	56.43	Assumed 0	16.46		1 Polygonal Structure Shape
BLD_24 (Cooling Tower #2)	24.11	77.56	Assumed 0	8.15		1 Rectangular Structure Shape
BLD_25 (Cooling Tower #1)	27.23	42.32	Assumed 0	8.31		1 Rectangular Structure Shape



PERMIT TO CONSTRUCT APPLICATION

Revision 2 02/14/07

Please see instructions on page 2 before filling out the form.

	DENTIFICATIO	N		
Company Name:	Facility Name:			Facility ID No:
Renova Energy, Inc.	Heyburn Ethan	ol Plant		
Brief Project Description: Construction of new	v ethanol manufa	acturing plant		
APPLIC	ABILITY DETE	RMINATION		
Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)		⊠ NO	☐ YES	
(Case-by-Case MACT)		* If YES then applicant must sub case MACT determination [IAC		
Will this project be subject to a New Source Performance Stand (40 CFR part 60)	dard?	□NO	☑ YES	*
(40 C) IN part 60)		*If YES please identify sub-part:	Kb and	I Dc
3. Will this project be subject to a MACT (Maximum Achievable C regulation? (40 CFR part 63)	ontrol <u>T</u> echnology)	☑ NO *If YES please identify sub-part:	☐ YES	*
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUT	TANT		•	
4. Will this project be subject to a NESHAP (National Emission St Hazardous Air Pollutants) regulation? (40 CFR part 61)	andards for	☑ NO *If YES please identify sub-part:	☐ YES	*
Will this project be subject to PSD (<u>Prevention of Significant December</u> (40 CFR section 52.21)	eterioration)?	⊠ NO	☐ YES	
6. Was netting done for this project to avoid PSD?		☑ NO *If YES please attach netting cal	☐ YES culations	
IF YOU ARE UNSURE HOW TO ANSWER ANY	OF THESE QUE		RMIT H	OTLINE AT